



Appl. No. 10/800,340; Attorney Docket No. 9301-228

Inventor: L. Weng

Response to August 30, 2007 Office Action

### Replacement Sheet

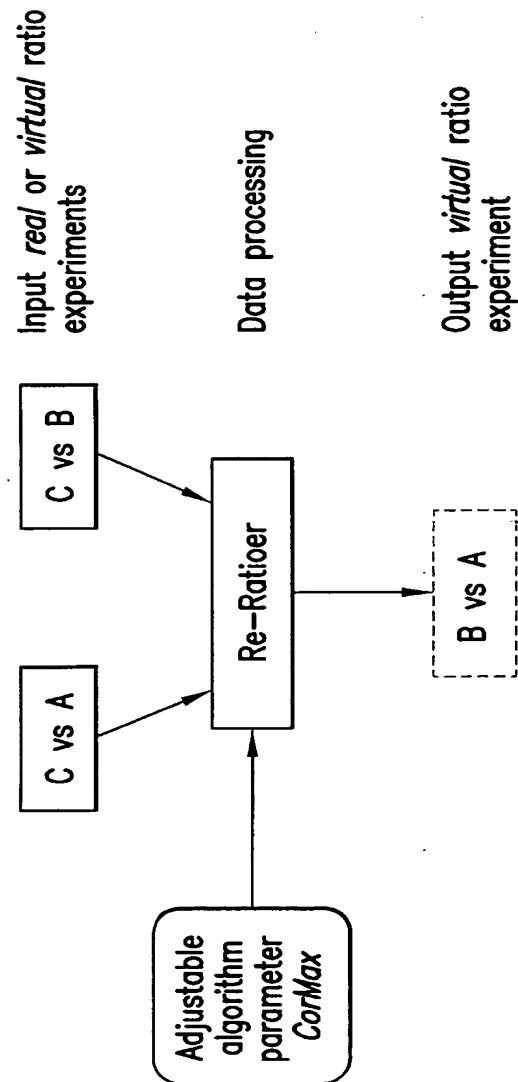


FIG. 1

Replacement Sheet

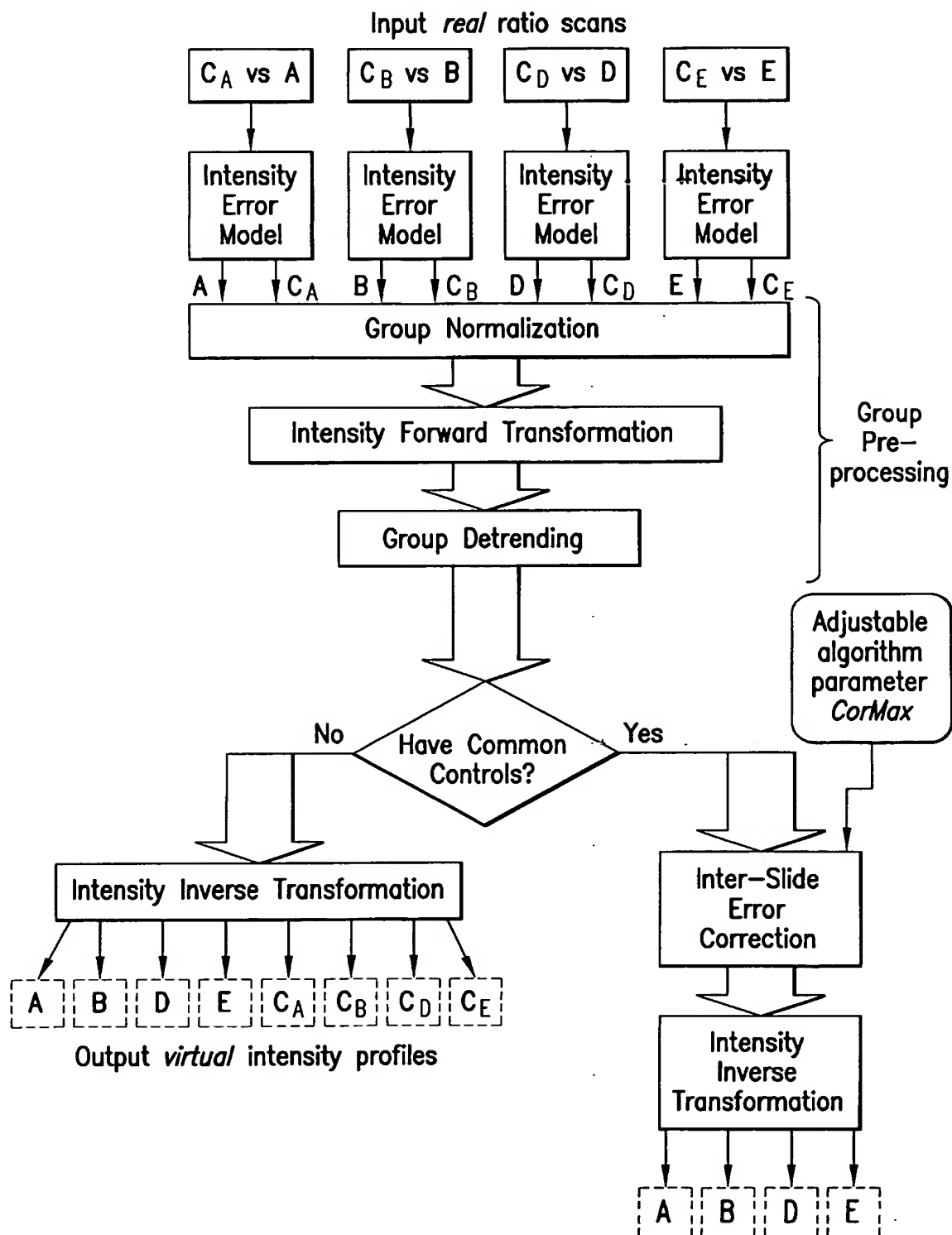


FIG.2 Output *virtual* intensity profiles

Replacement Sheet

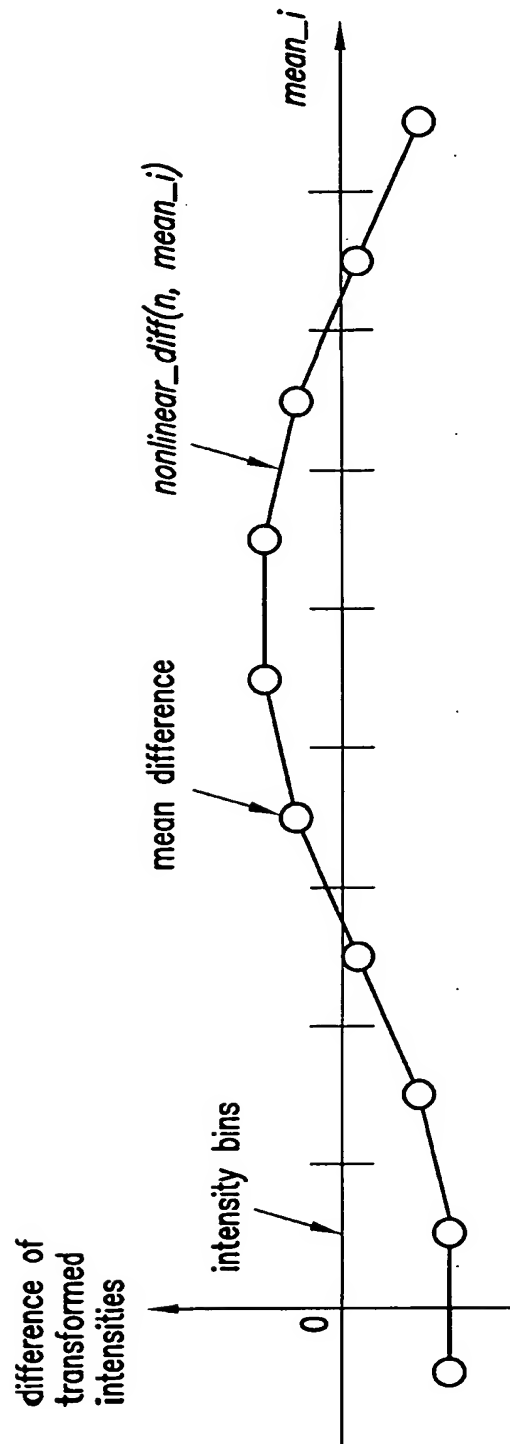
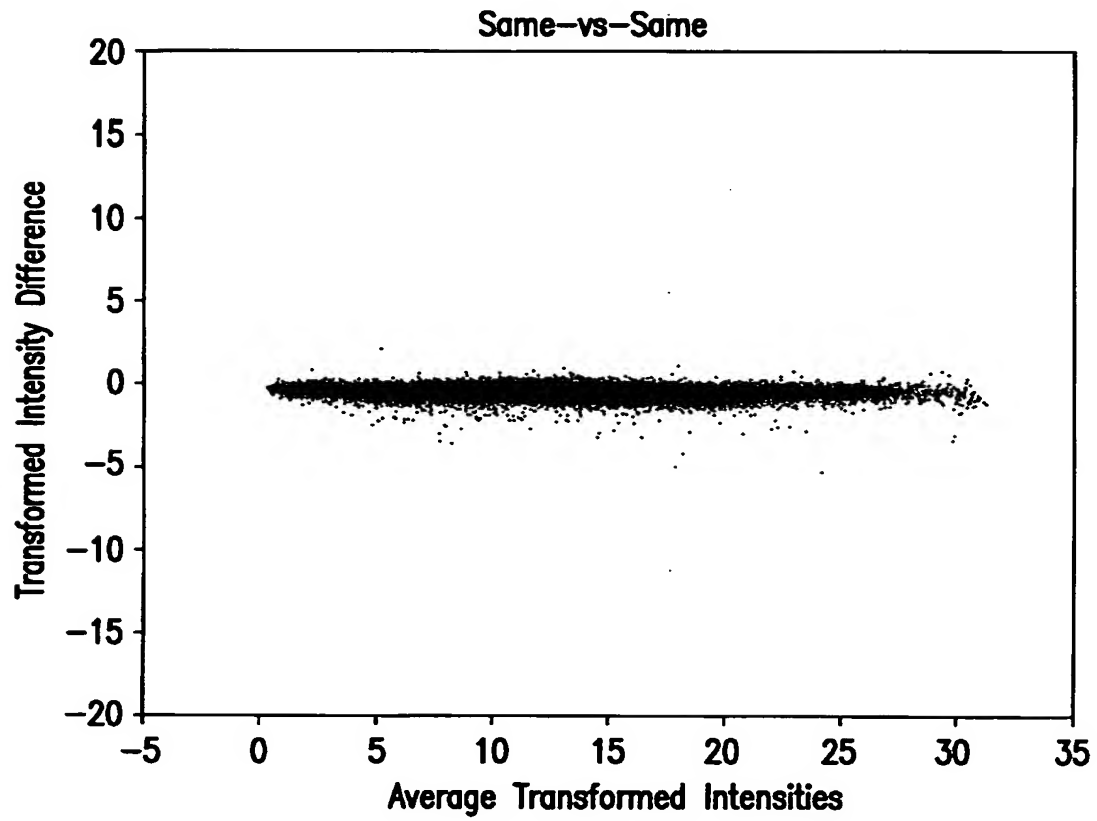


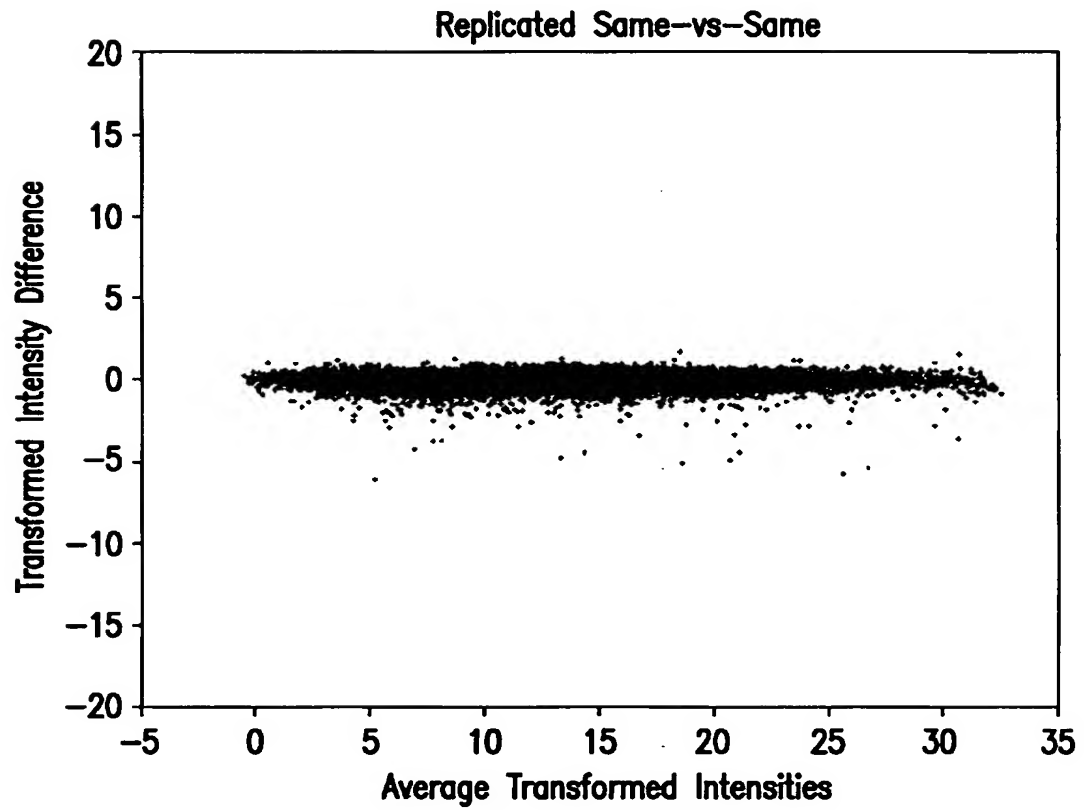
FIG. 3

**Replacement Sheet**



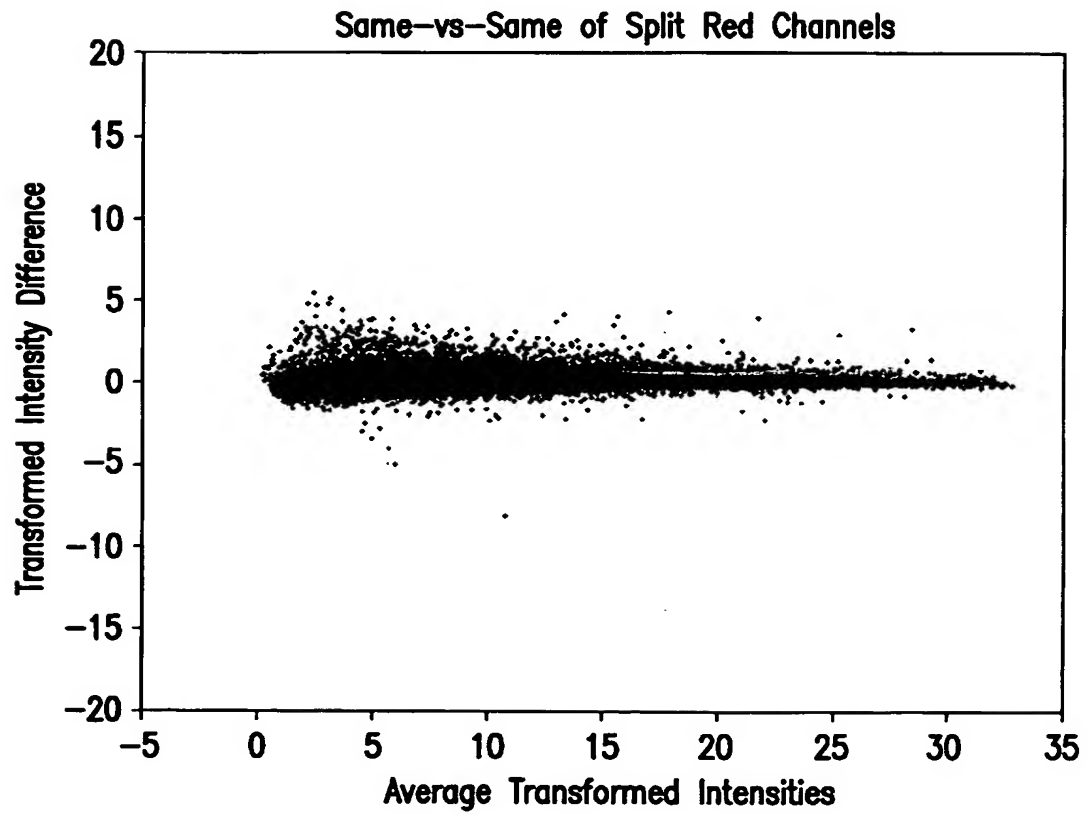
**FIG.4**

**Replacement Sheet**



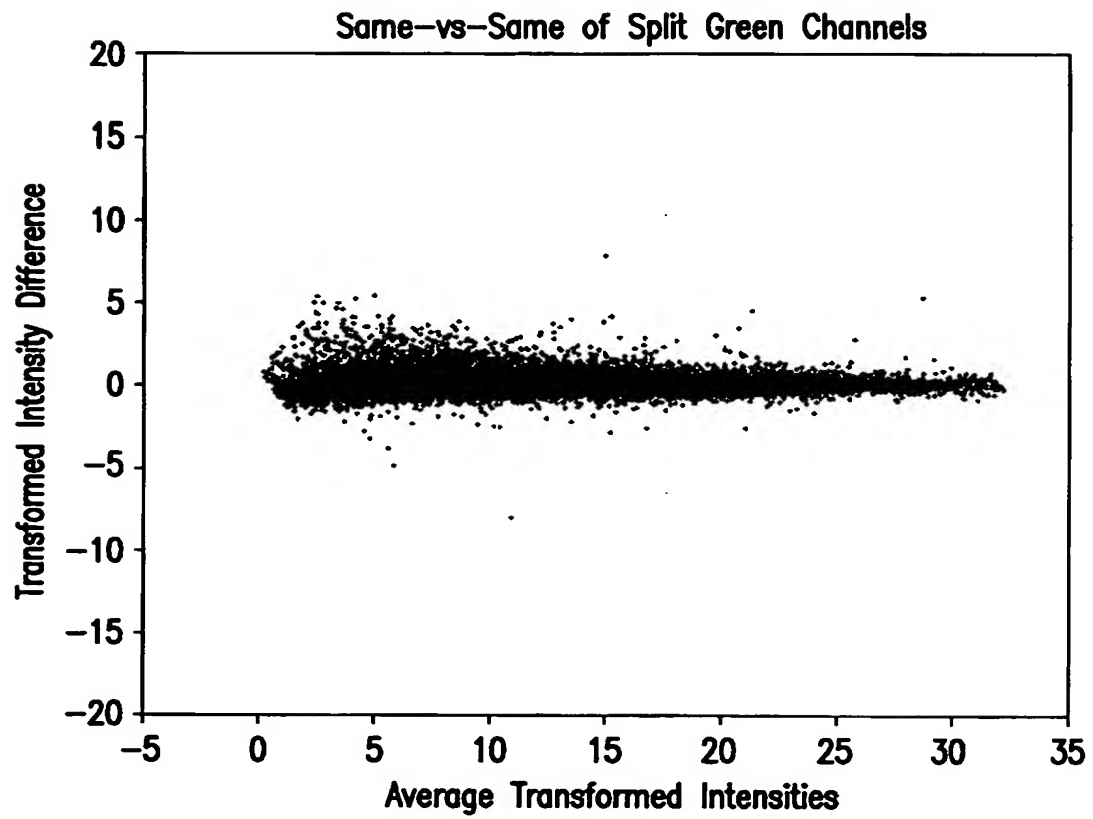
**FIG.5**

**Replacement Sheet**



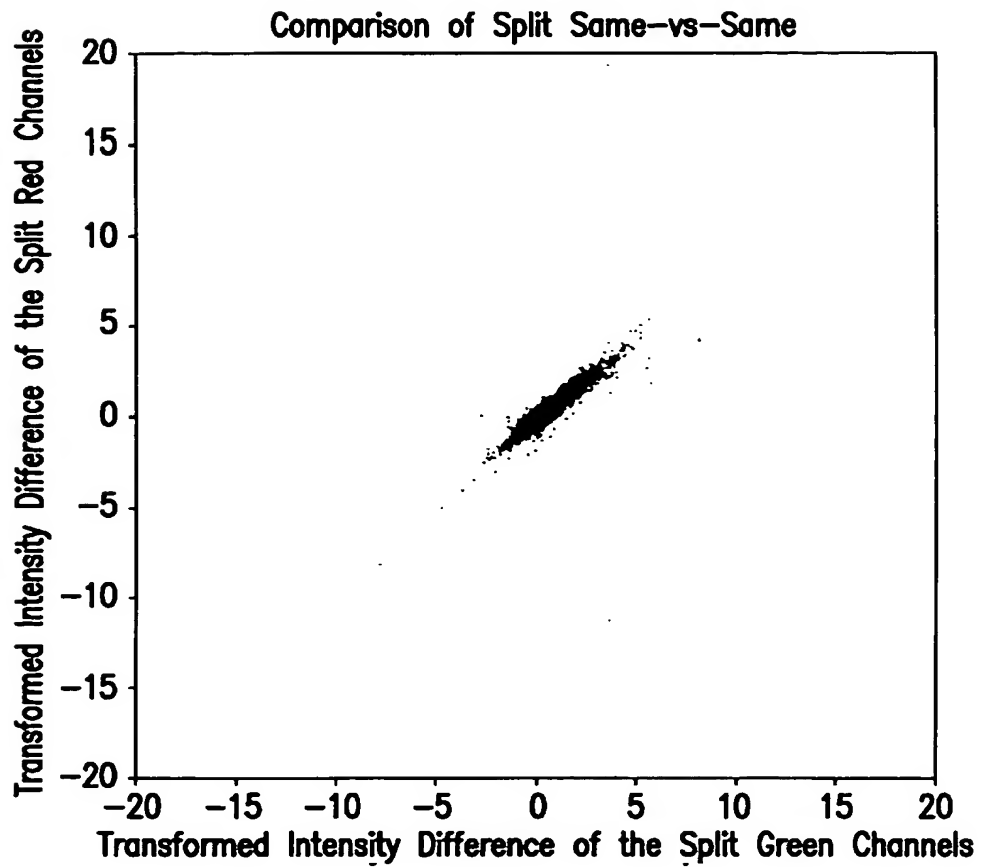
**FIG.6**

**Replacement Sheet**



**FIG.7**

**Replacement Sheet**



**FIG.8**

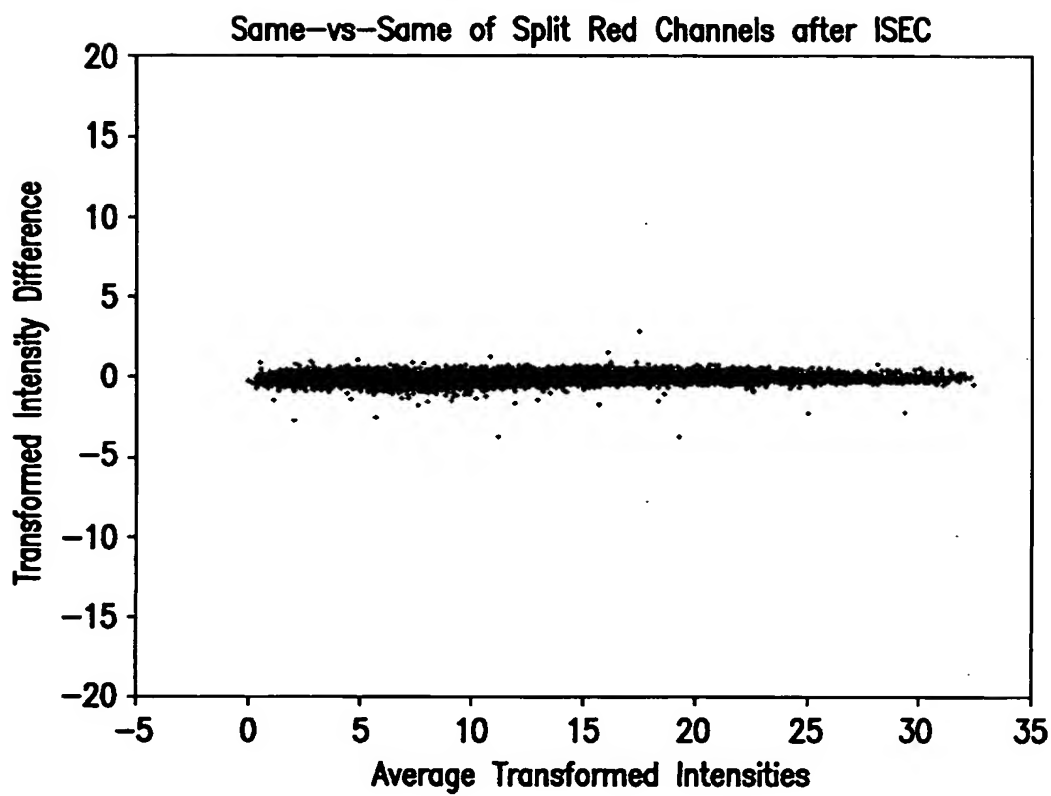


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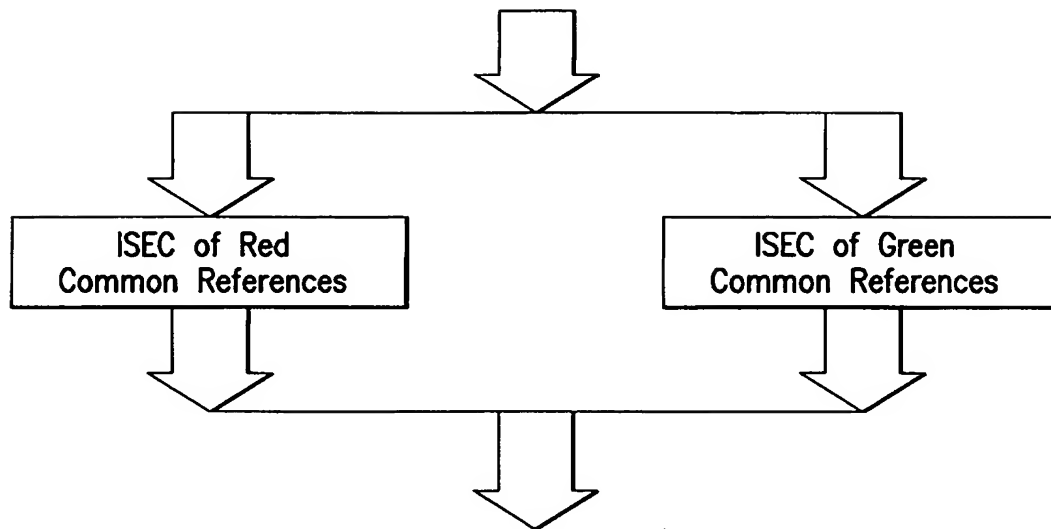
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**Replacement Sheet**



**FIG.9**

**Replacement Sheet**



**FIG.10**

Replacement Sheet

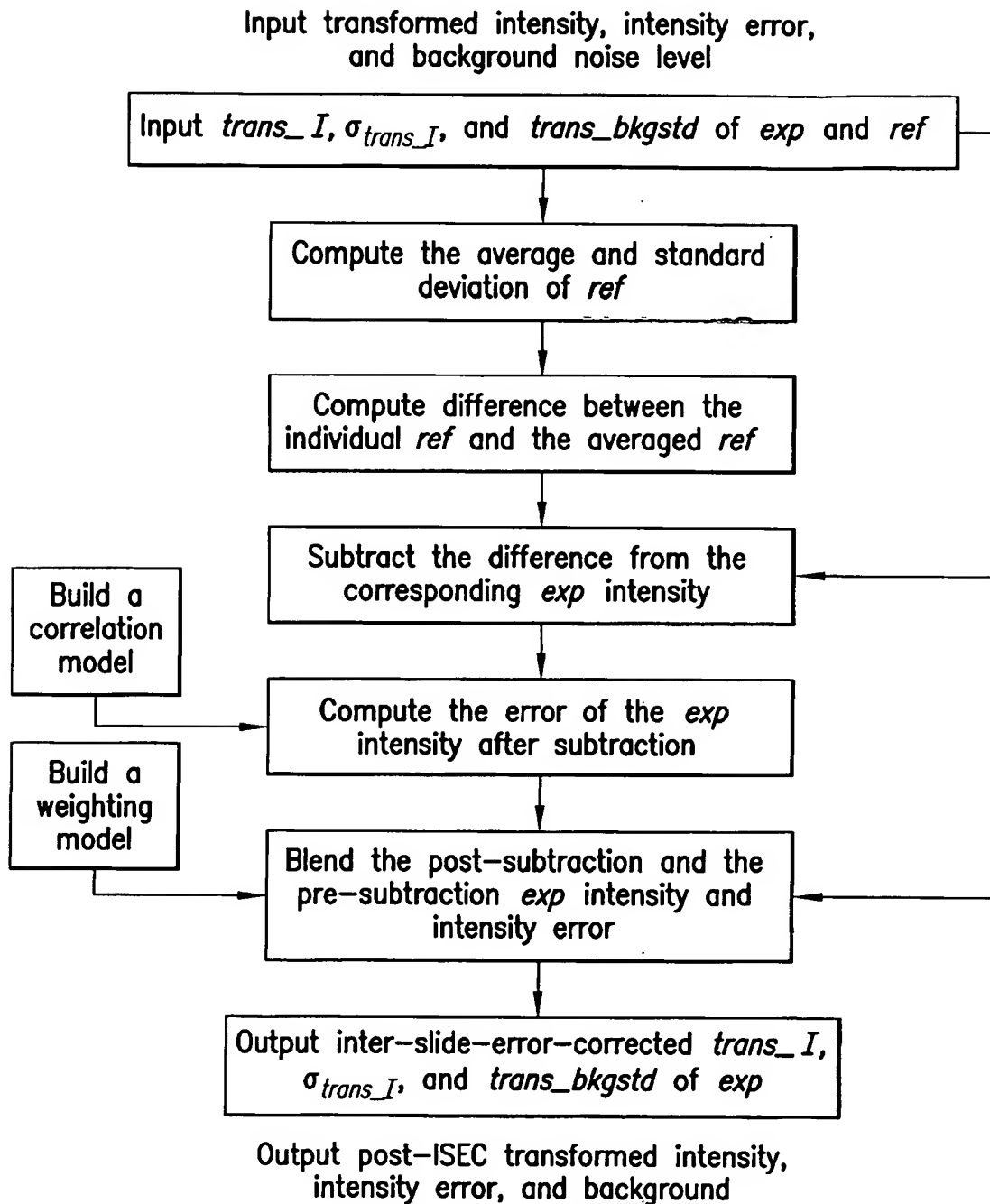
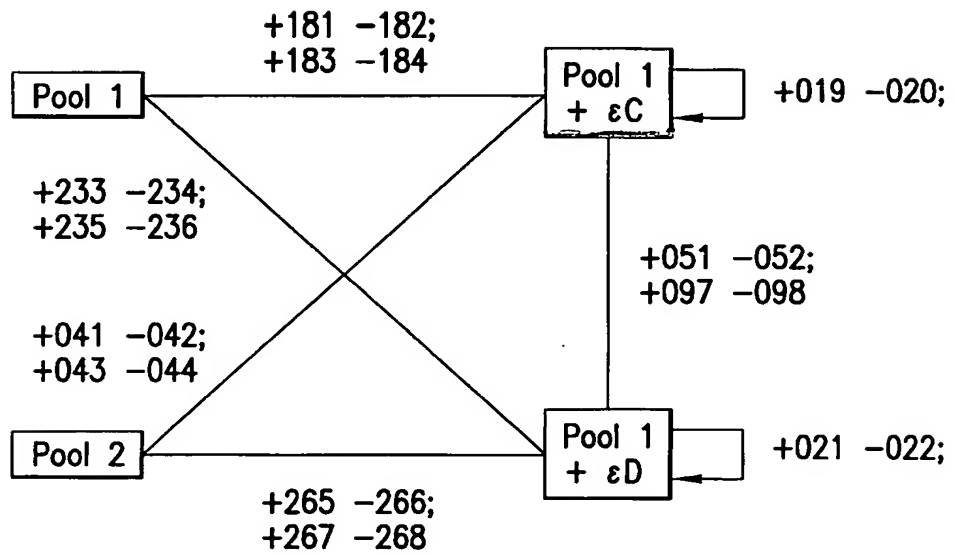


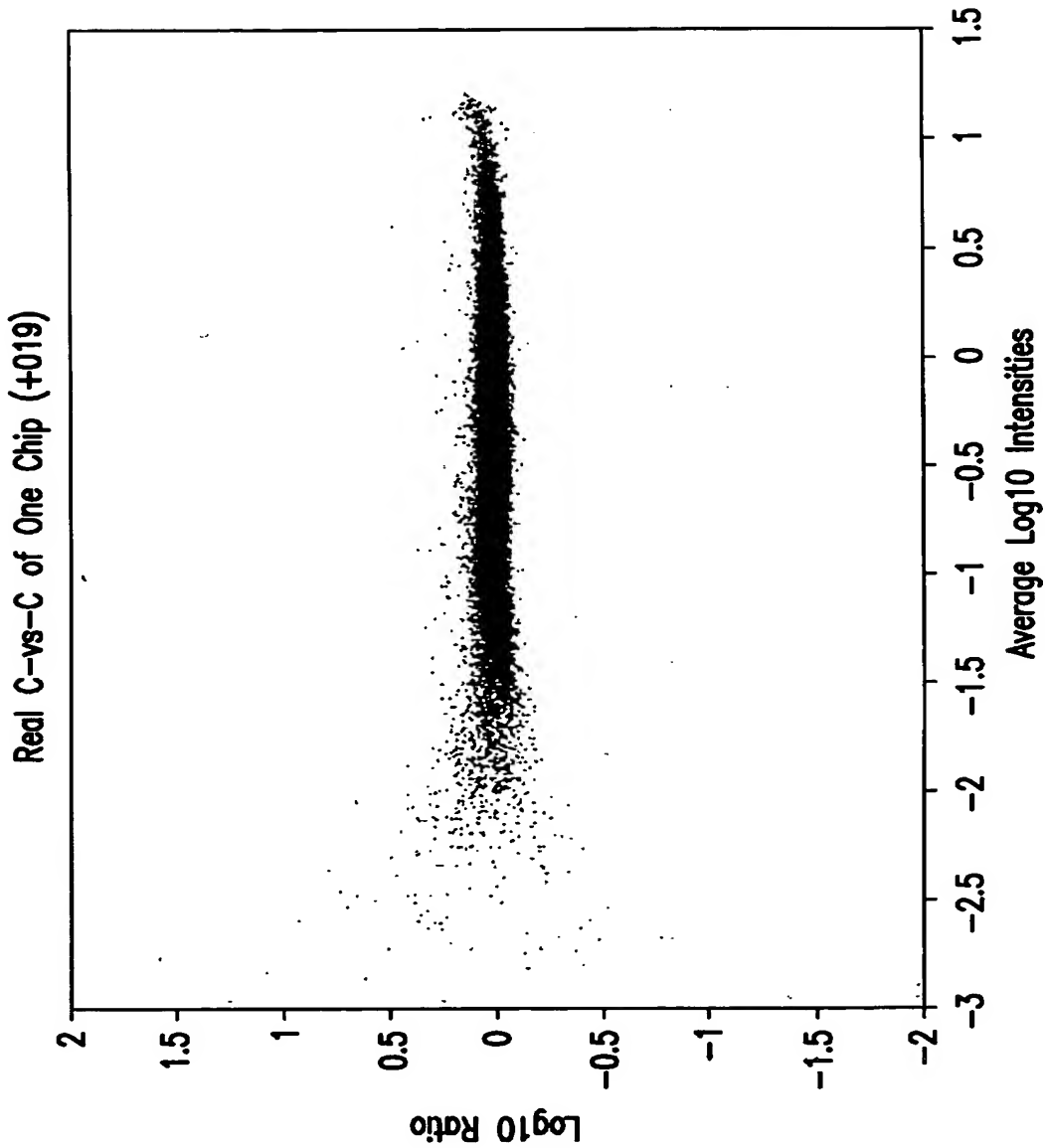
FIG.11

**Replacement Sheet**



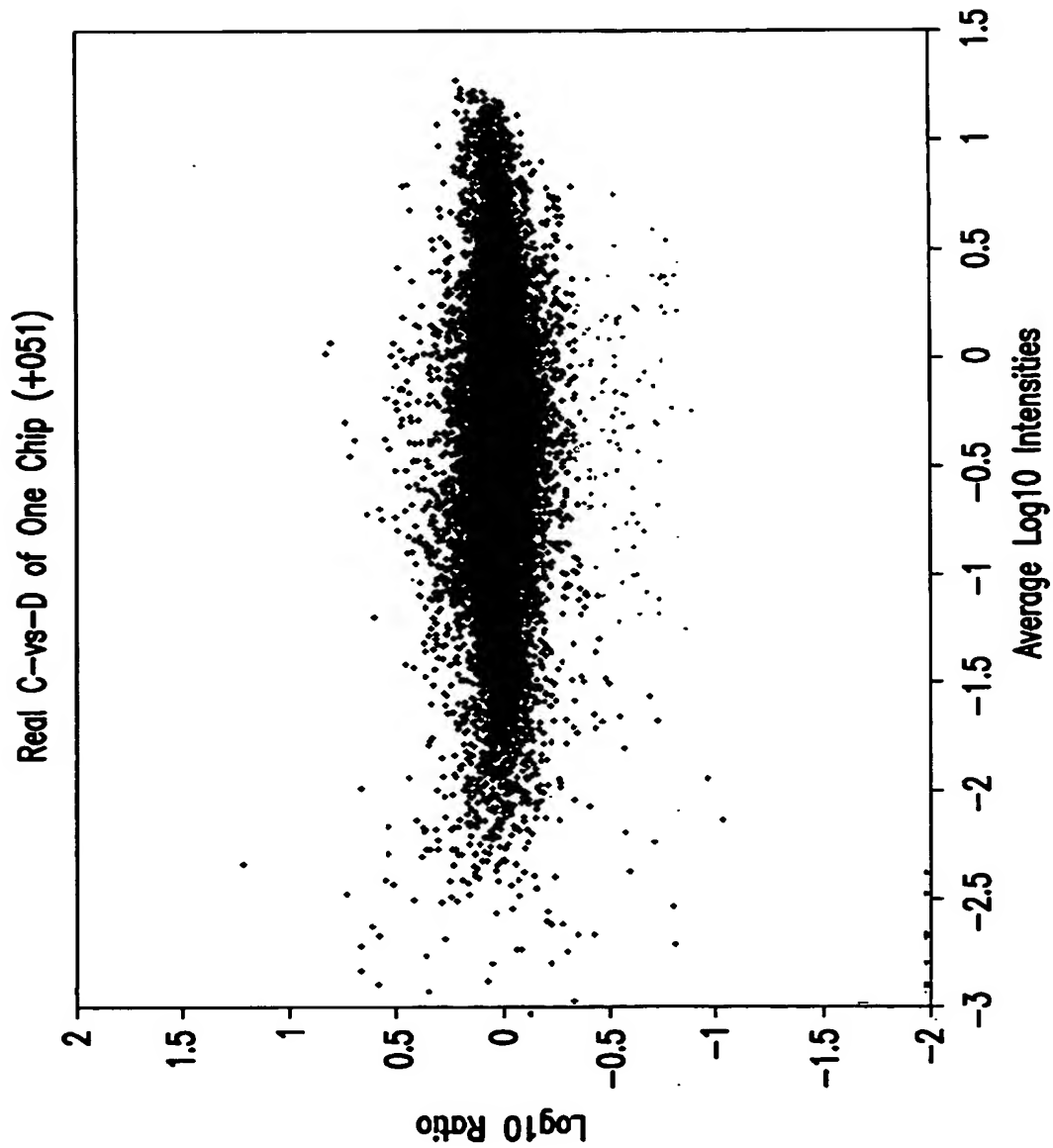
**FIG.12**

**Replacement Sheet**



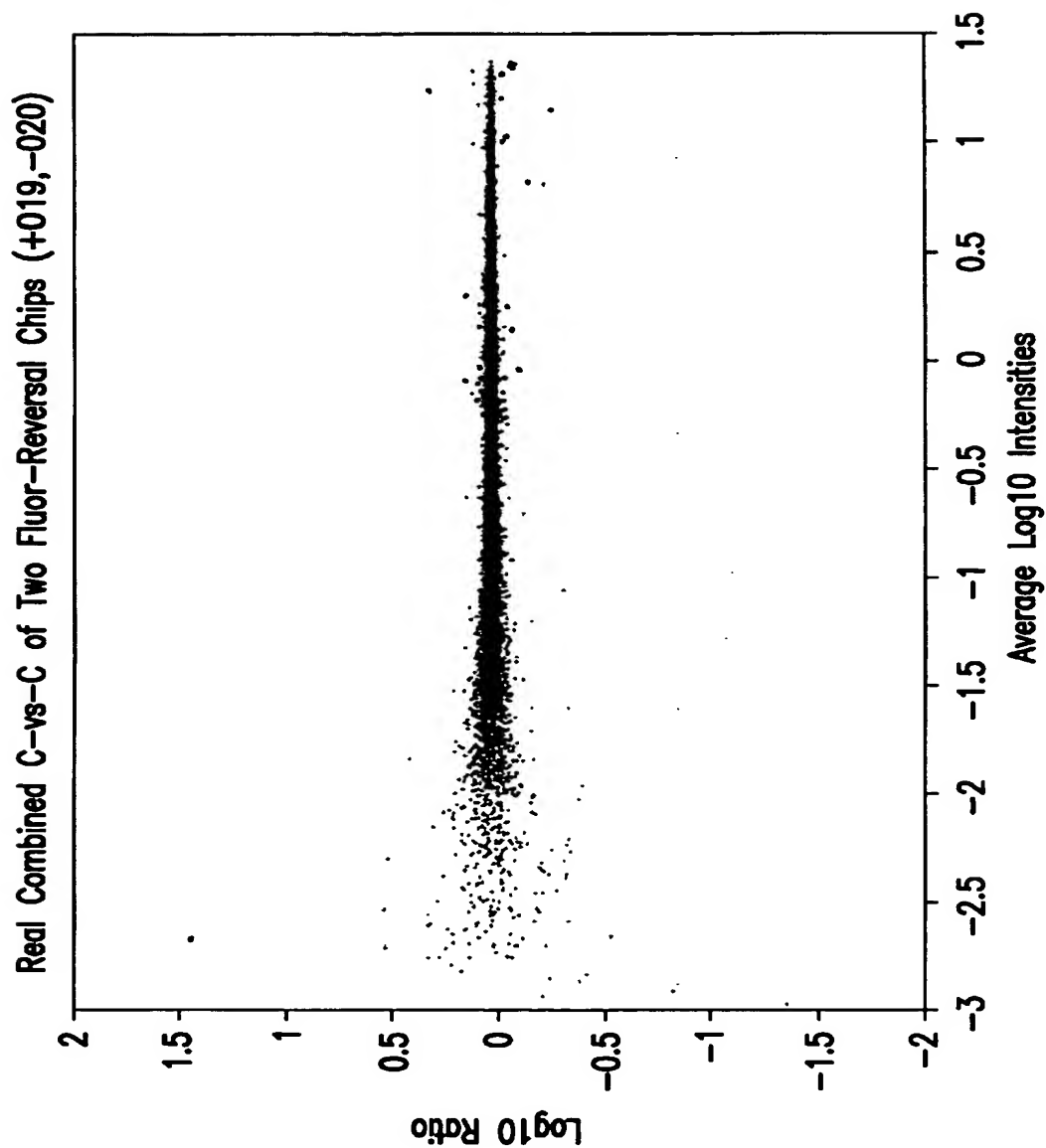
**FIG.13**

**Replacement Sheet**



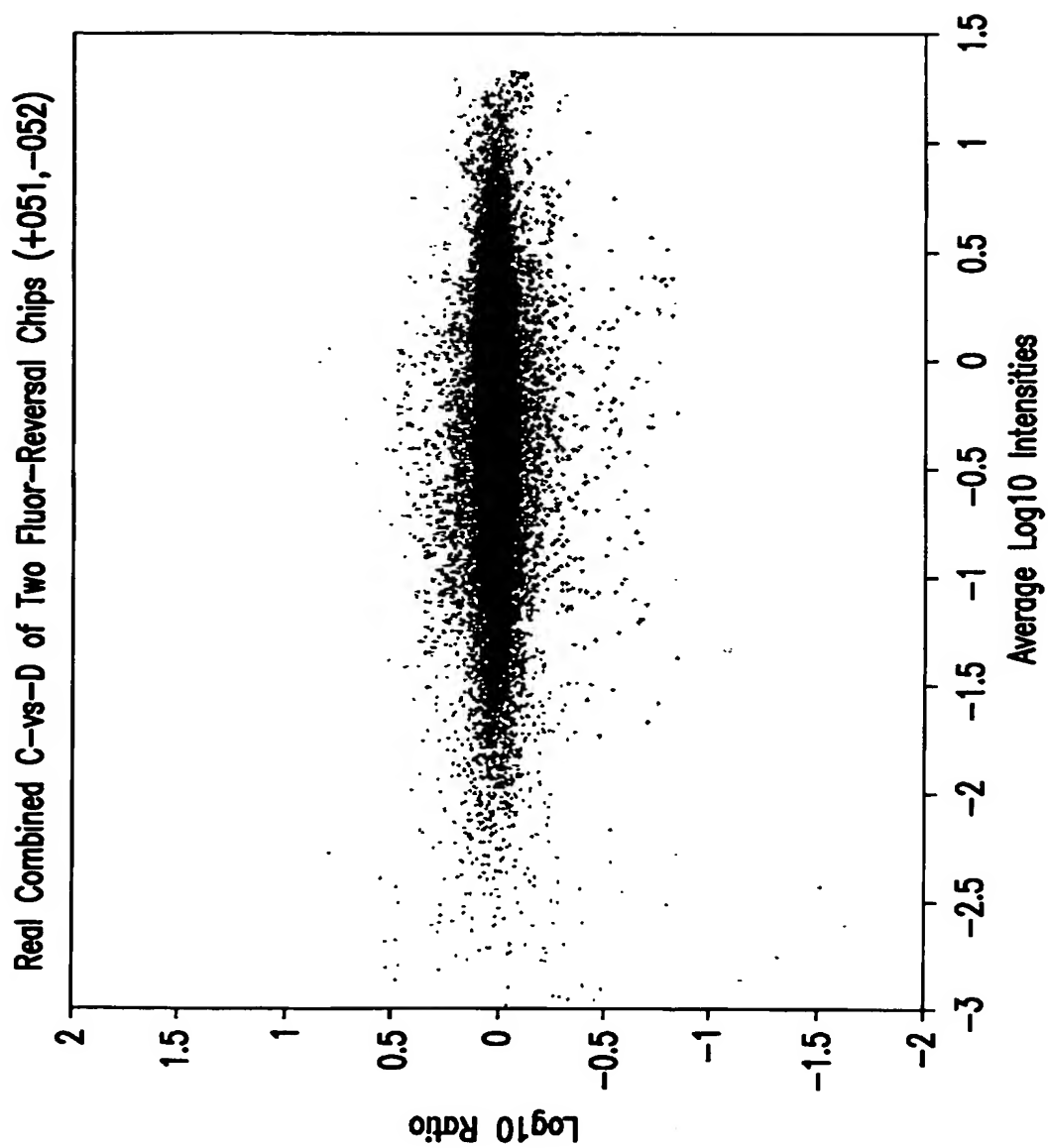
**FIG.14**

**Replacement Sheet**



**FIG.15**

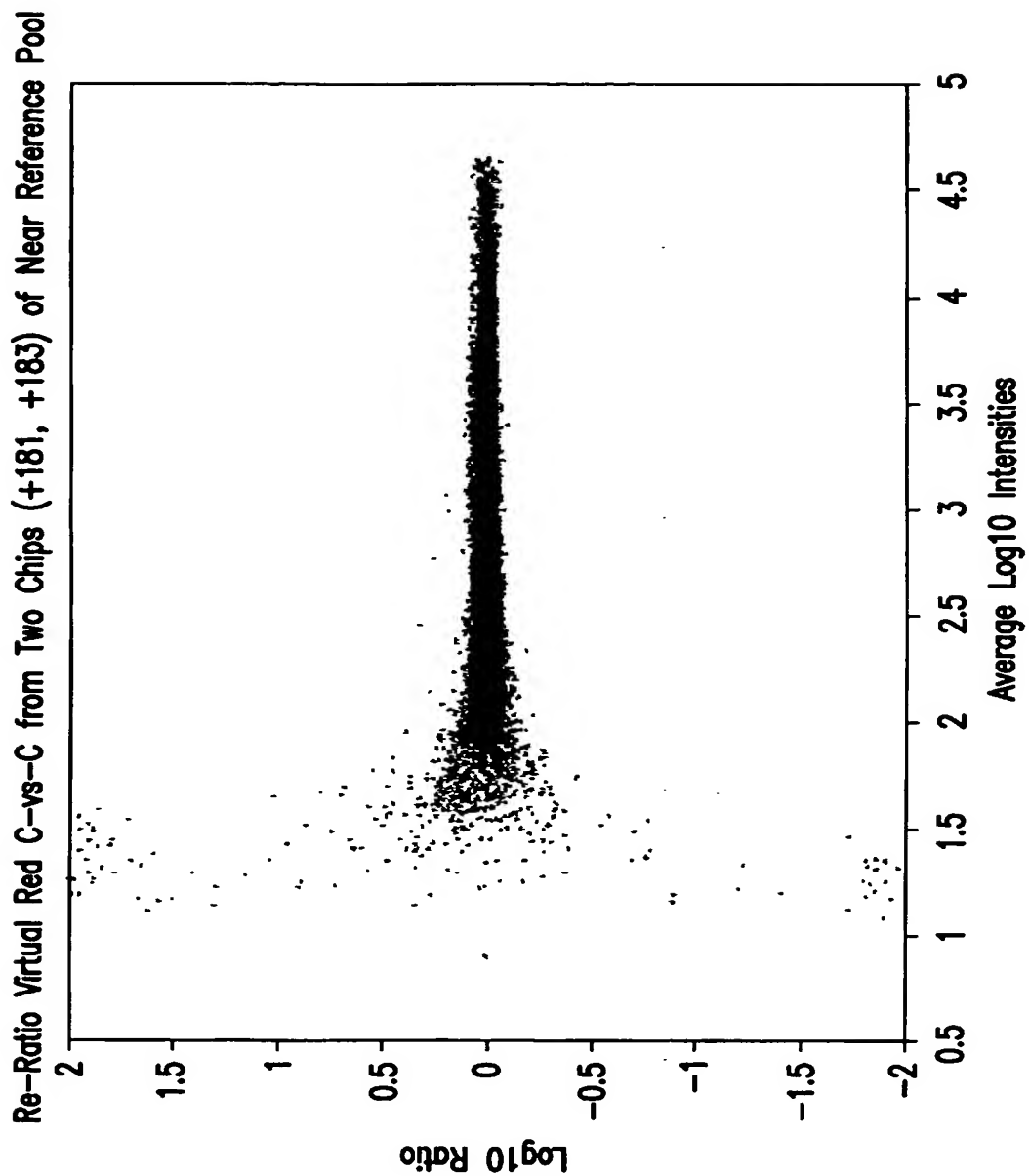
**Replacement Sheet**



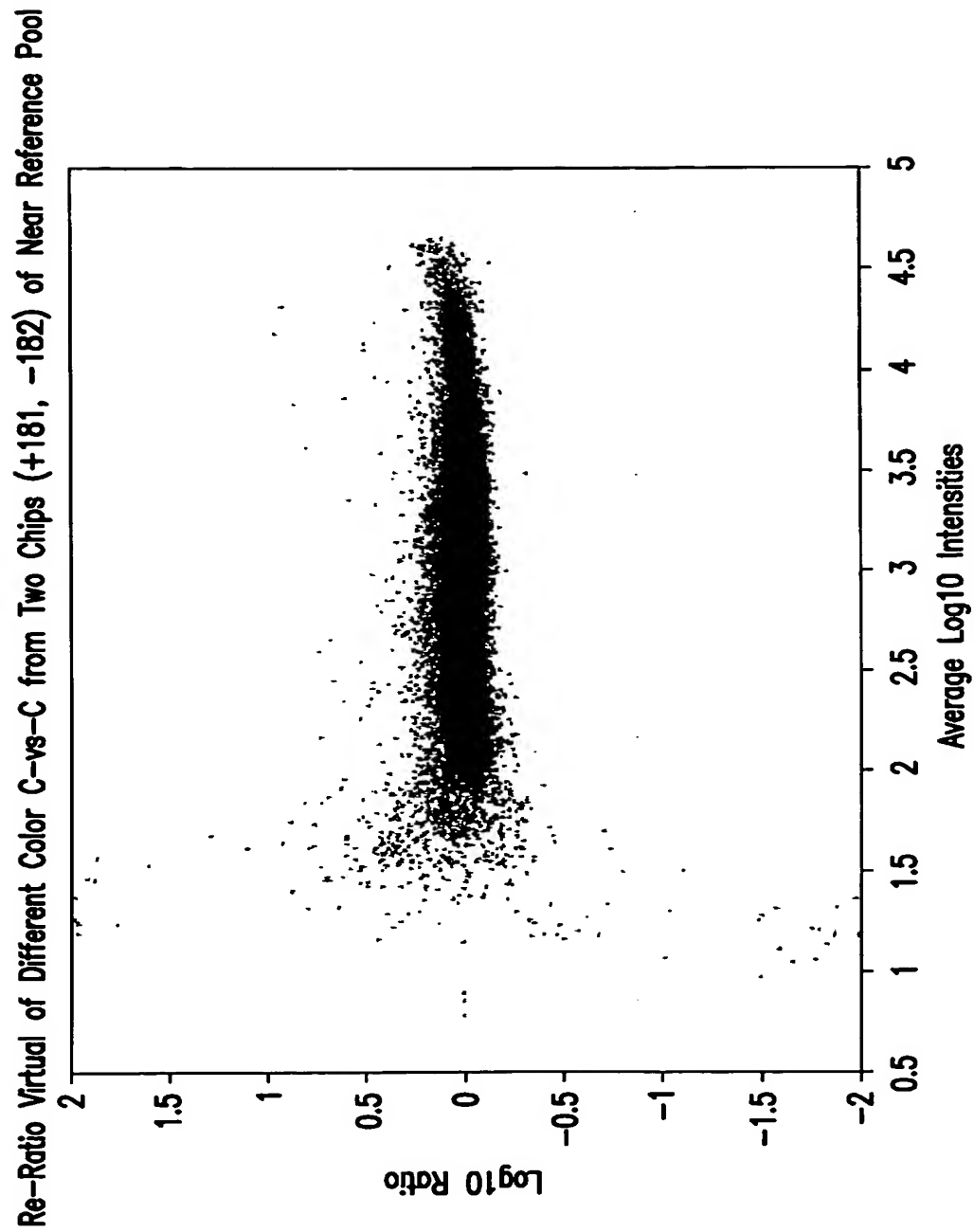
**FIG.16**



**Replacement Sheet**

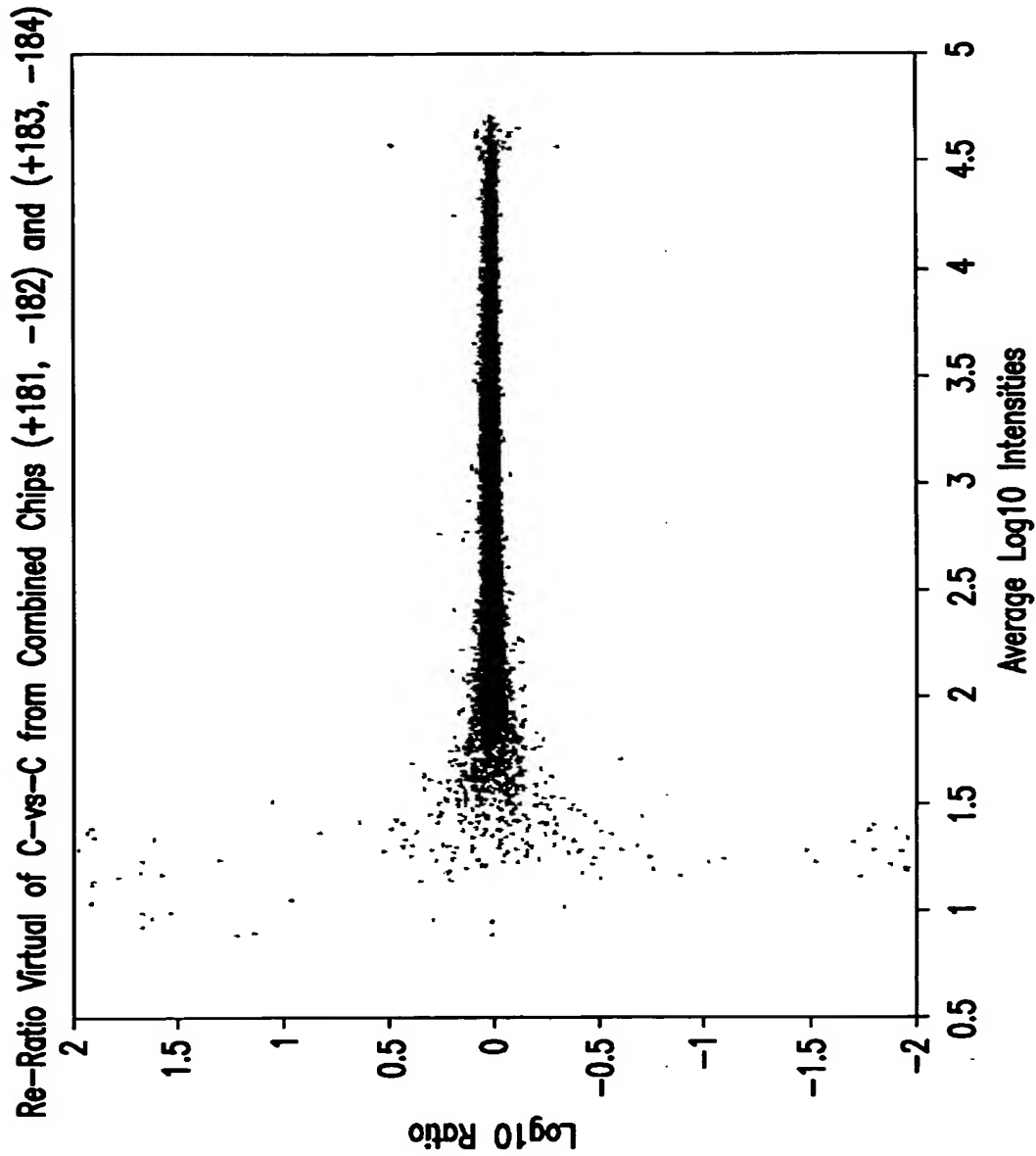


**Replacement Sheet**



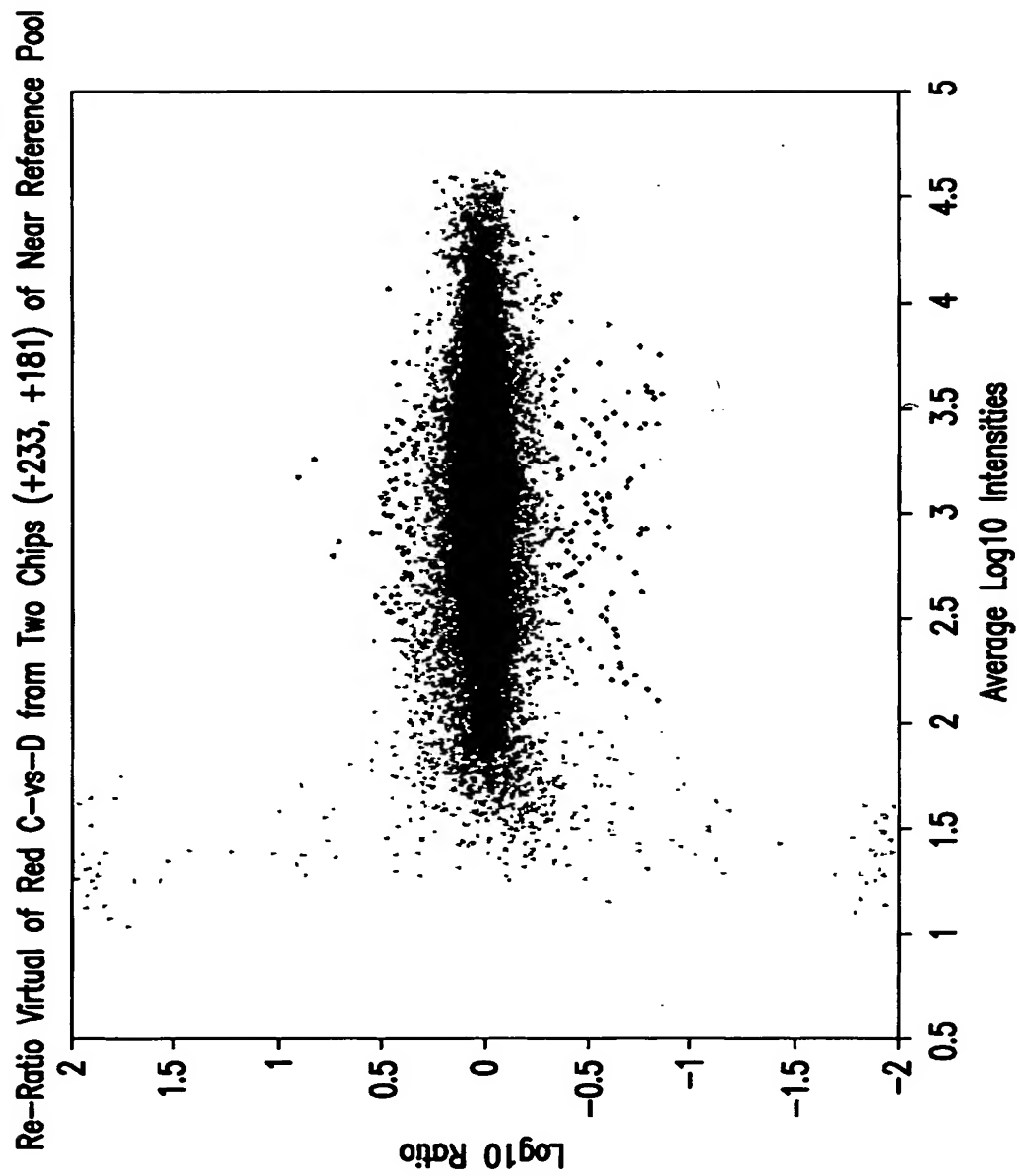
**FIG.18**

**Replacement Sheet**



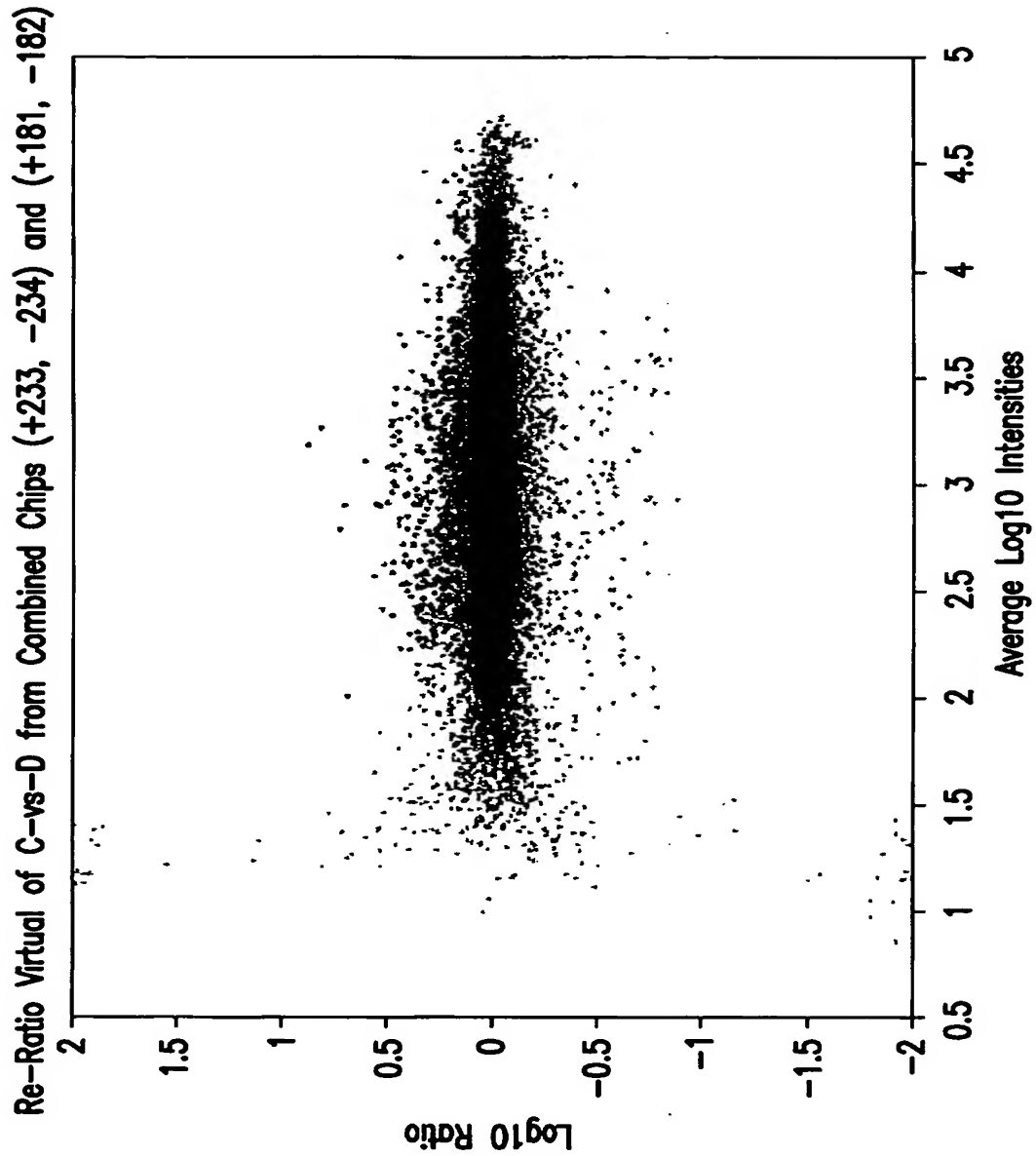
**FIG.19**

**Replacement Sheet**



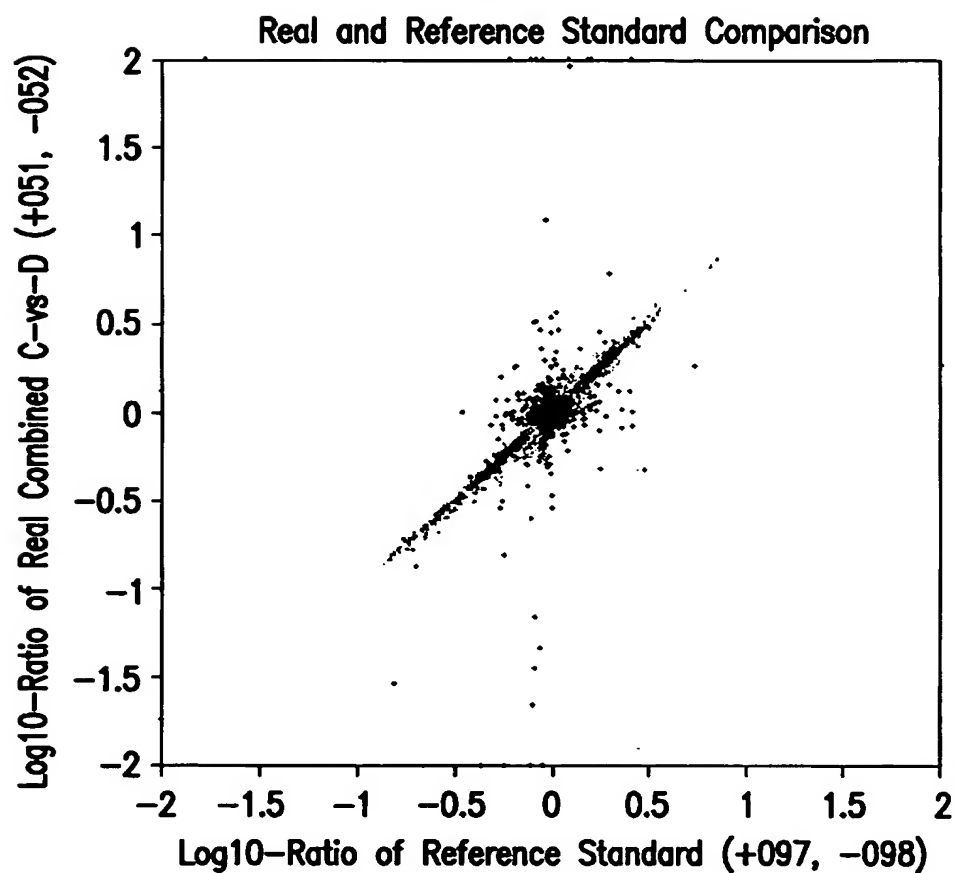
**FIG.20**

**Replacement Sheet**



**FIG.21**

**Replacement Sheet**

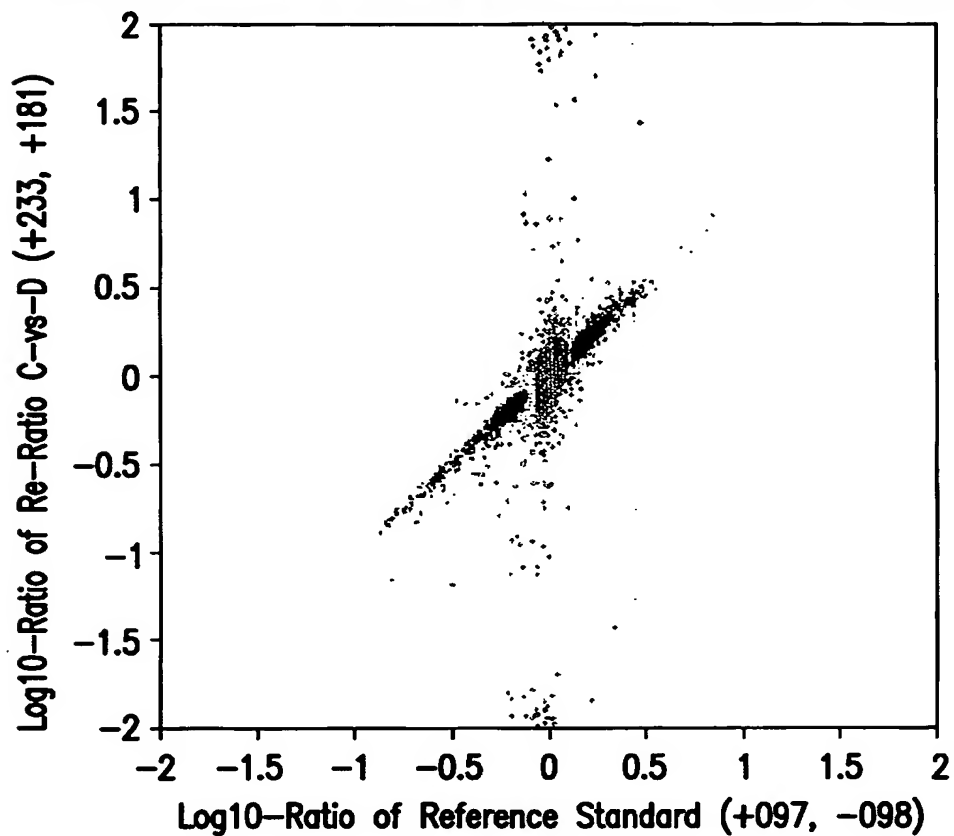


Y Signature = 6.3 percent  
X Signature = 6.02 percent  
Y Only = 0.738 percent  
X Only = 0.458 percent  
Signature in Both = 5.56 percent  
Signature Union Correlation = 0.997

**FIG.22**

**Replacement Sheet**

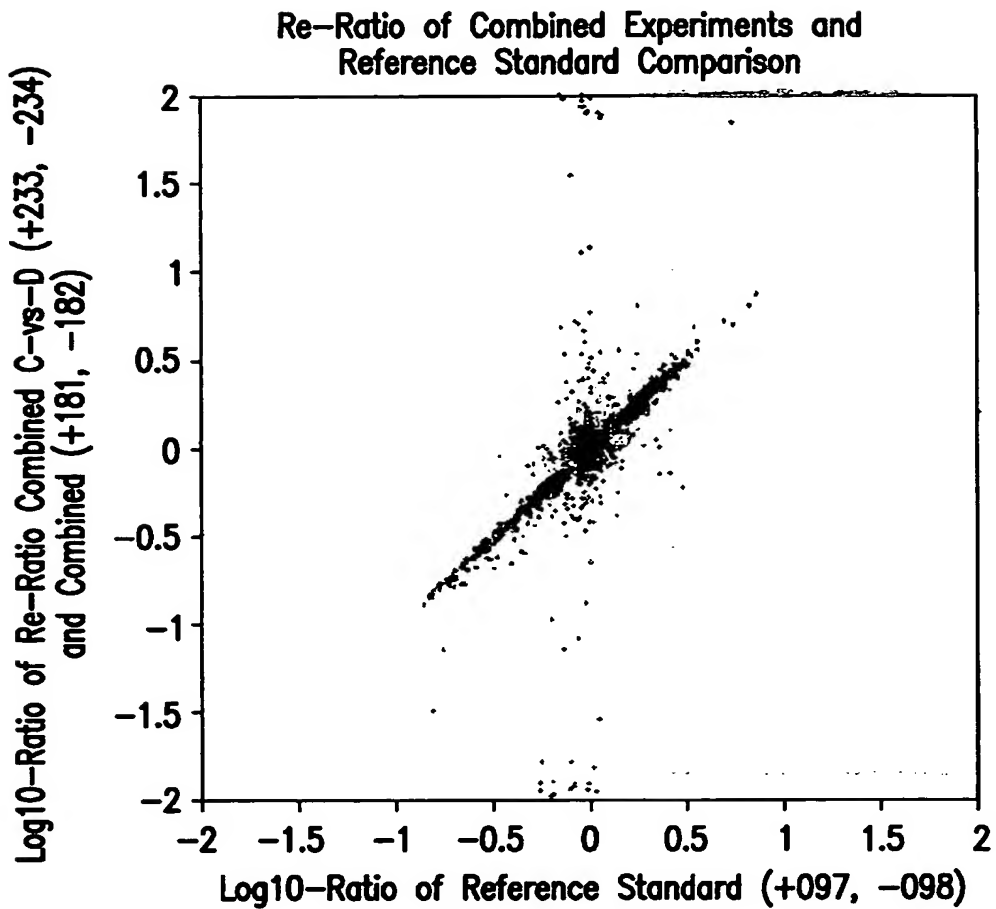
**Re-Ratio without Combining and Reference Standard Comparison**



Y Signature = 0.757 percent  
X Signature = 6.02 percent  
Y Only = 0.0233 percent  
X Only = 5.29 percent  
Signature in Both = 0.734 percent  
Signature Union Correlation = 0.98

**FIG.23**

**Replacement Sheet**

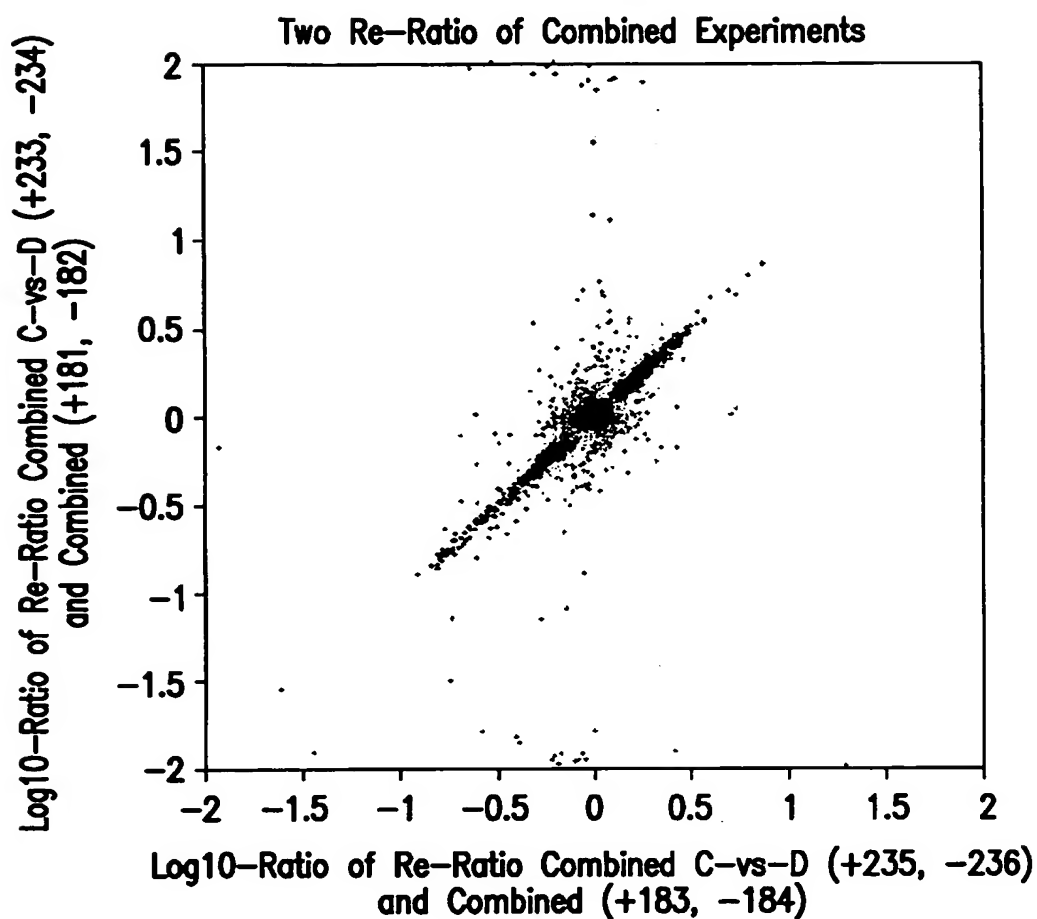


Y Signature = 6.04 percent  
X Signature = 6.02 percent  
Y Only = 0.78 percent  
X Only = 0.765 percent  
Signature in Both = 5.26 percent  
Signature Union Correlation = 0.994

**FIG.24**



**Replacement Sheet**



Y Signature = 6.04 percent

X Signature = 6.18 percent

Y Only = 0.757 percent

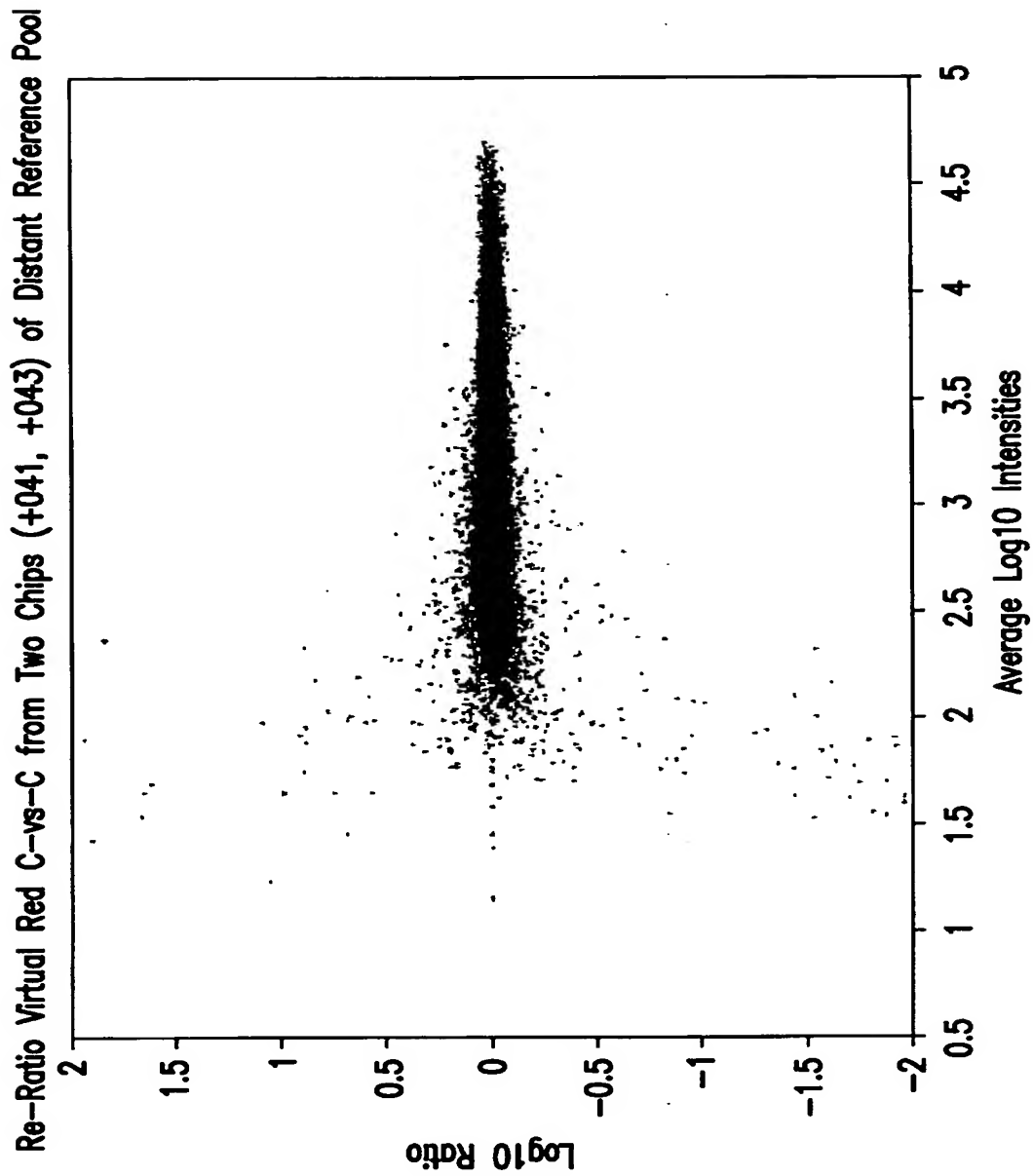
X Only = 0.901 percent

Signature in Both = 5.28 percent

Signature Union Correlation = 0.995

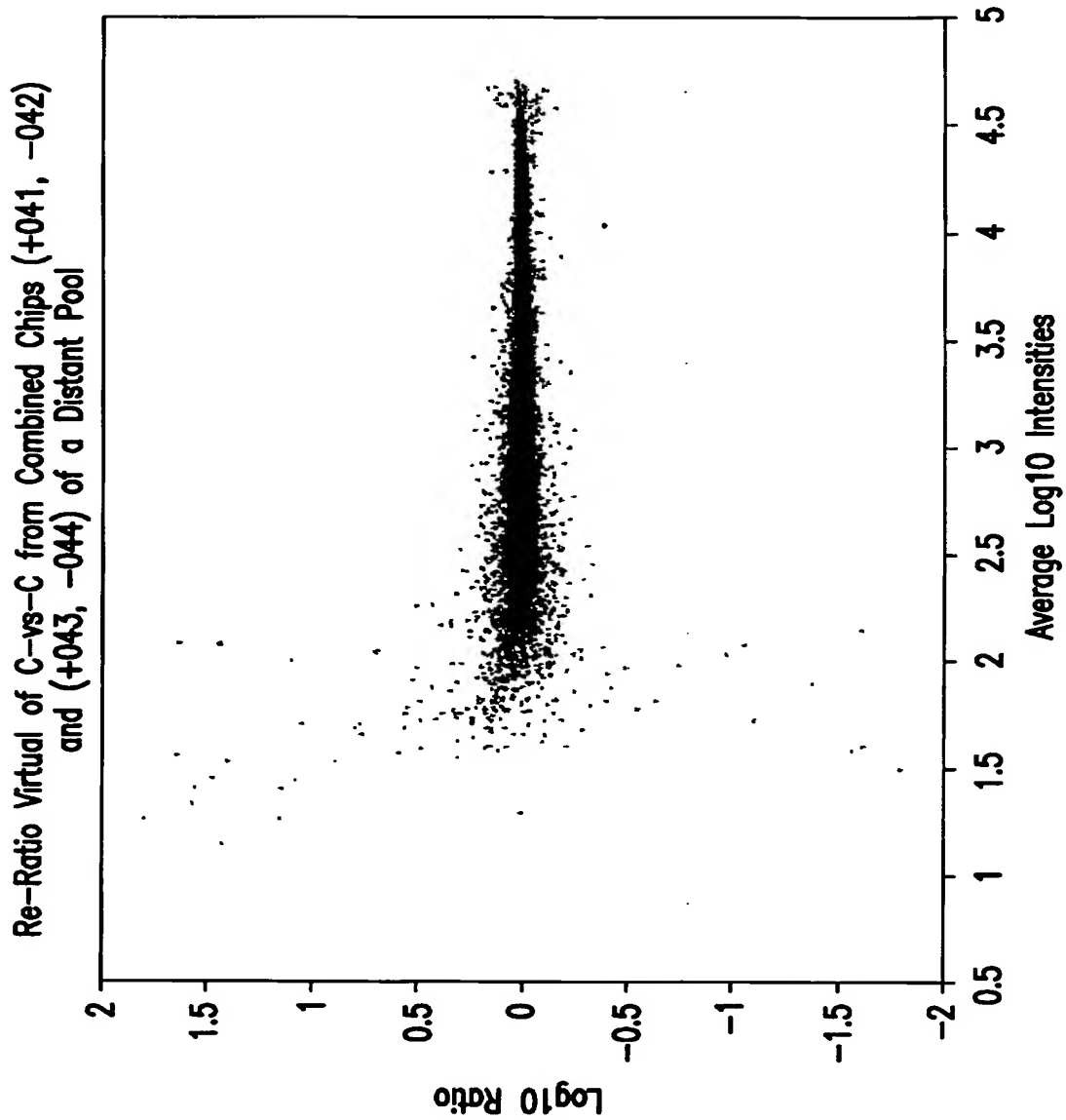
**FIG.25**

**Replacement Sheet**



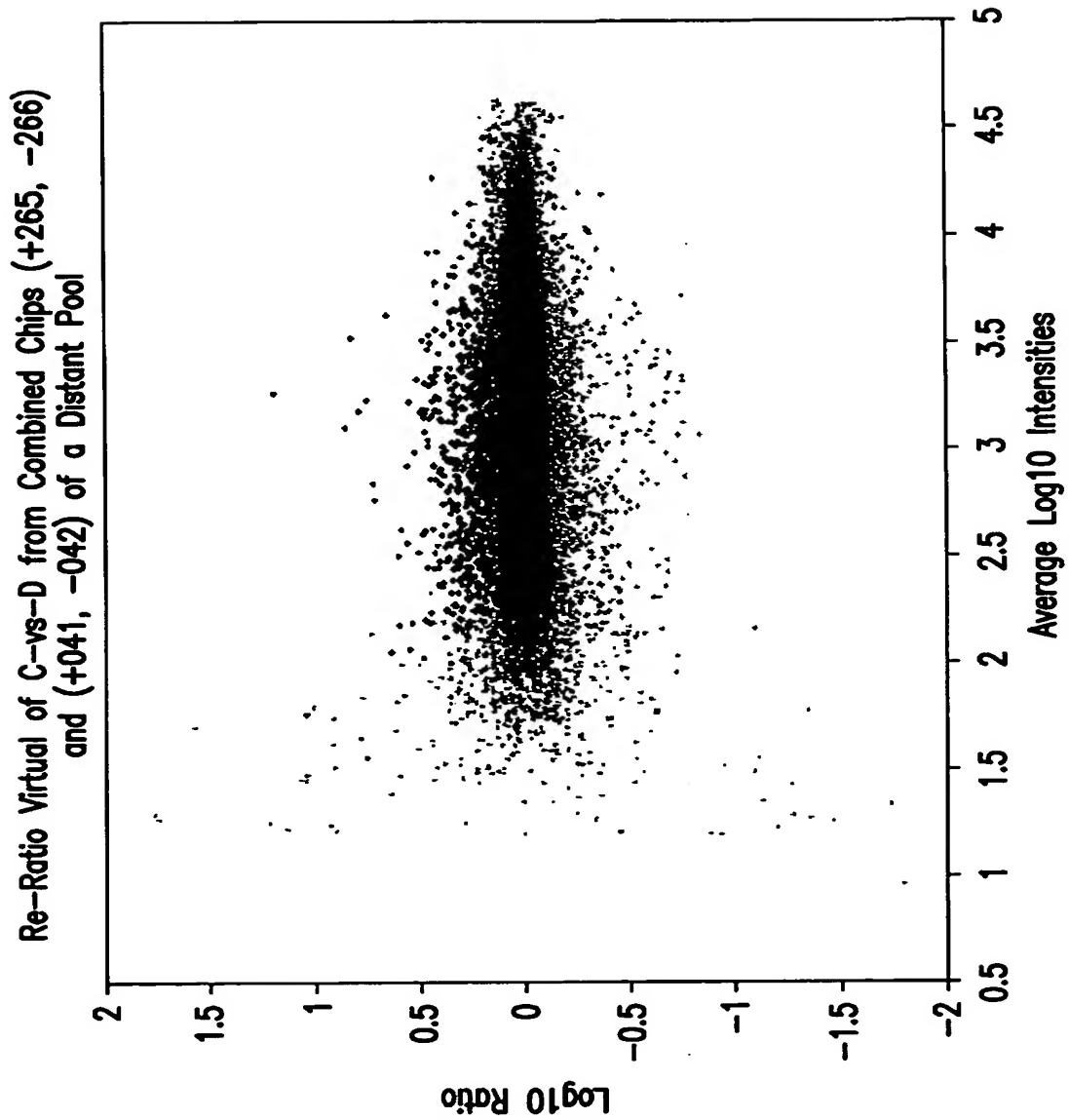
**FIG.26**

**Replacement Sheet**

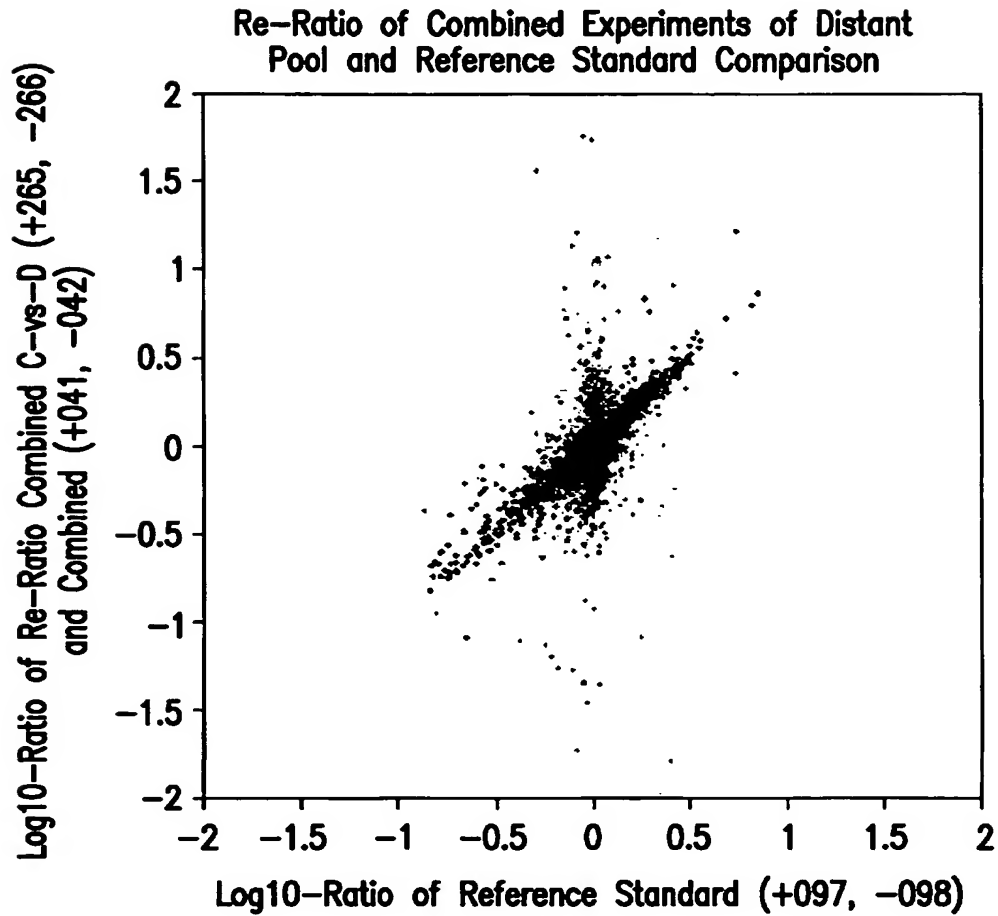


**FIG.27**

**Replacement Sheet**



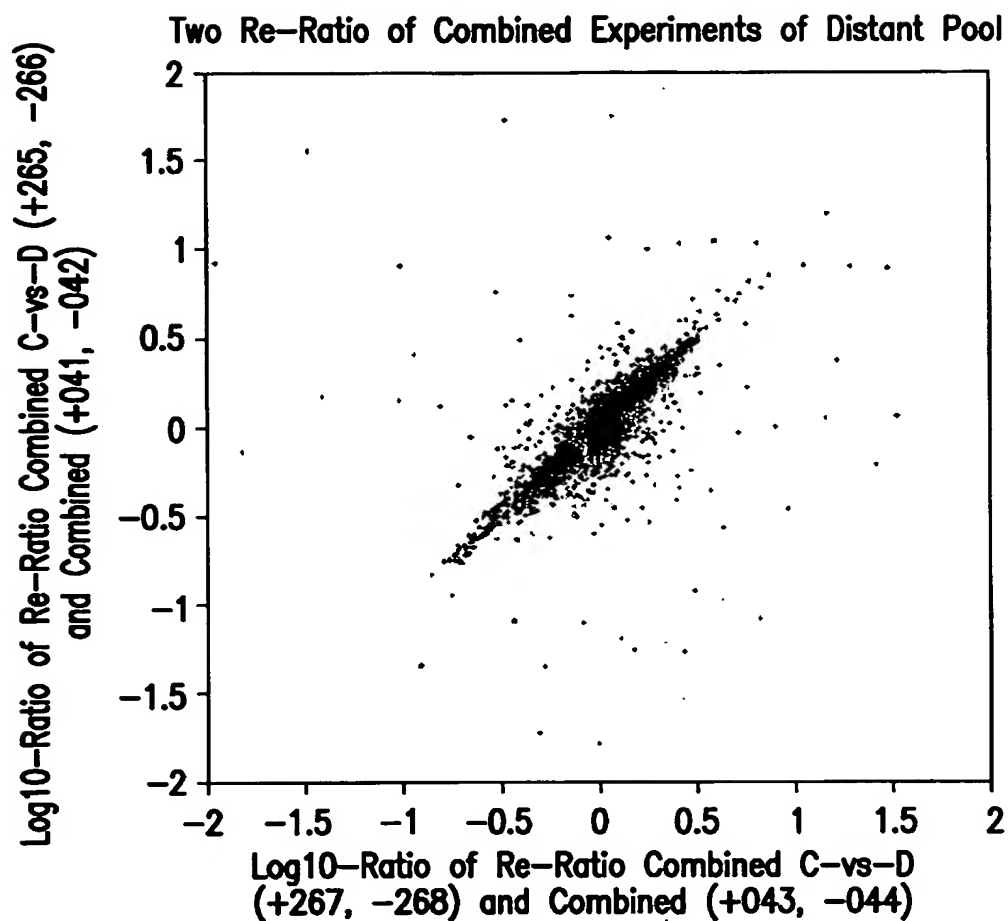
**Replacement Sheet**



Y Signature = 6.23 percent  
X Signature = 6.02 percent  
Y Only = 1.78 percent  
X Only = 1.57 percent  
Signature in Both = 4.45 percent  
Signature Union Correlation = 0.892

**FIG.29**

**Replacement Sheet**



Y Signature = 6.23 percent

X Signature = 5.43 percent

Y Only = 1.53 percent

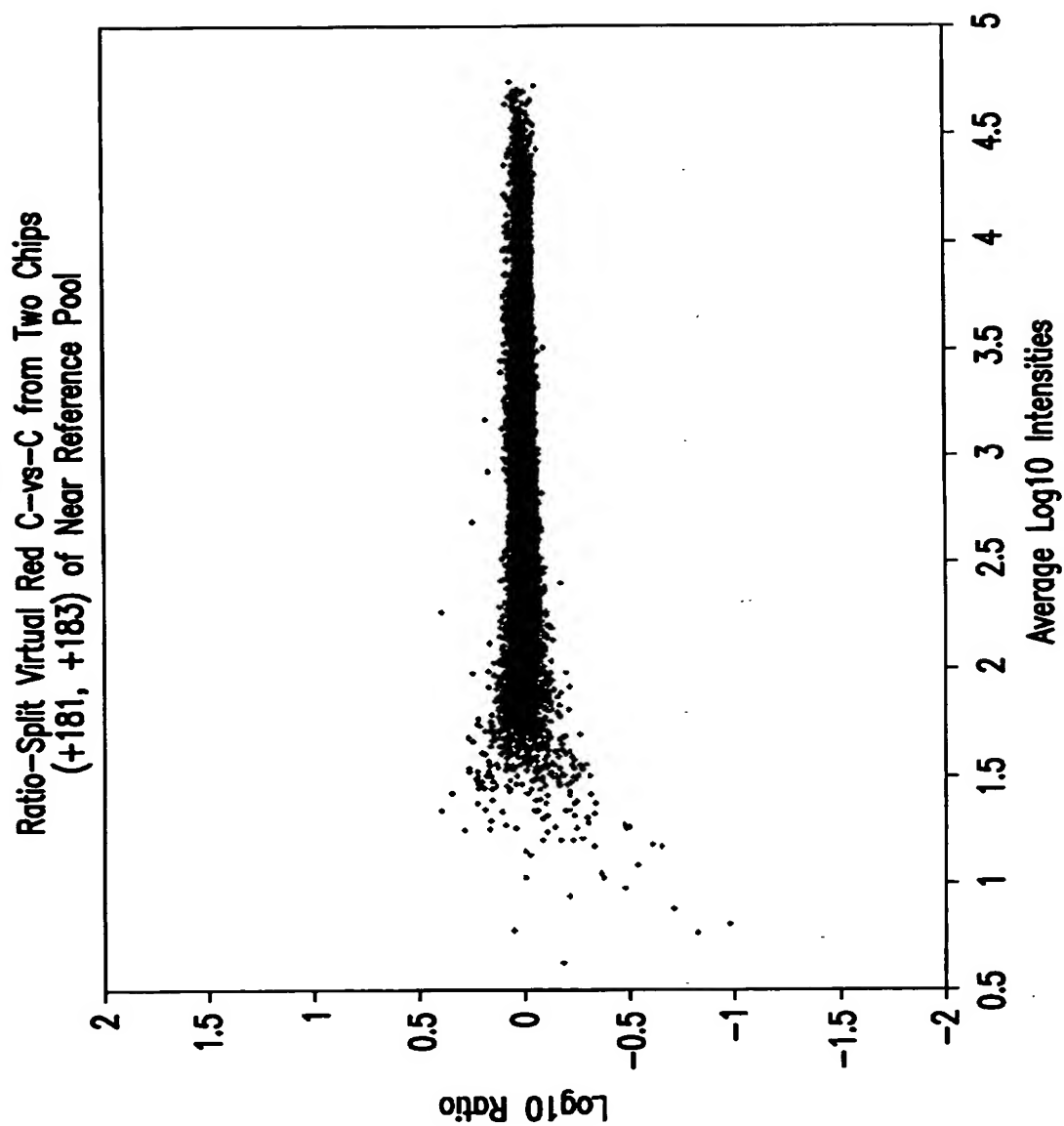
X Only = 0.73 percent

Signature in Both = 4.7 percent

Signature Union Correlation = 0.962

**FIG.30**

**Replacement Sheet**

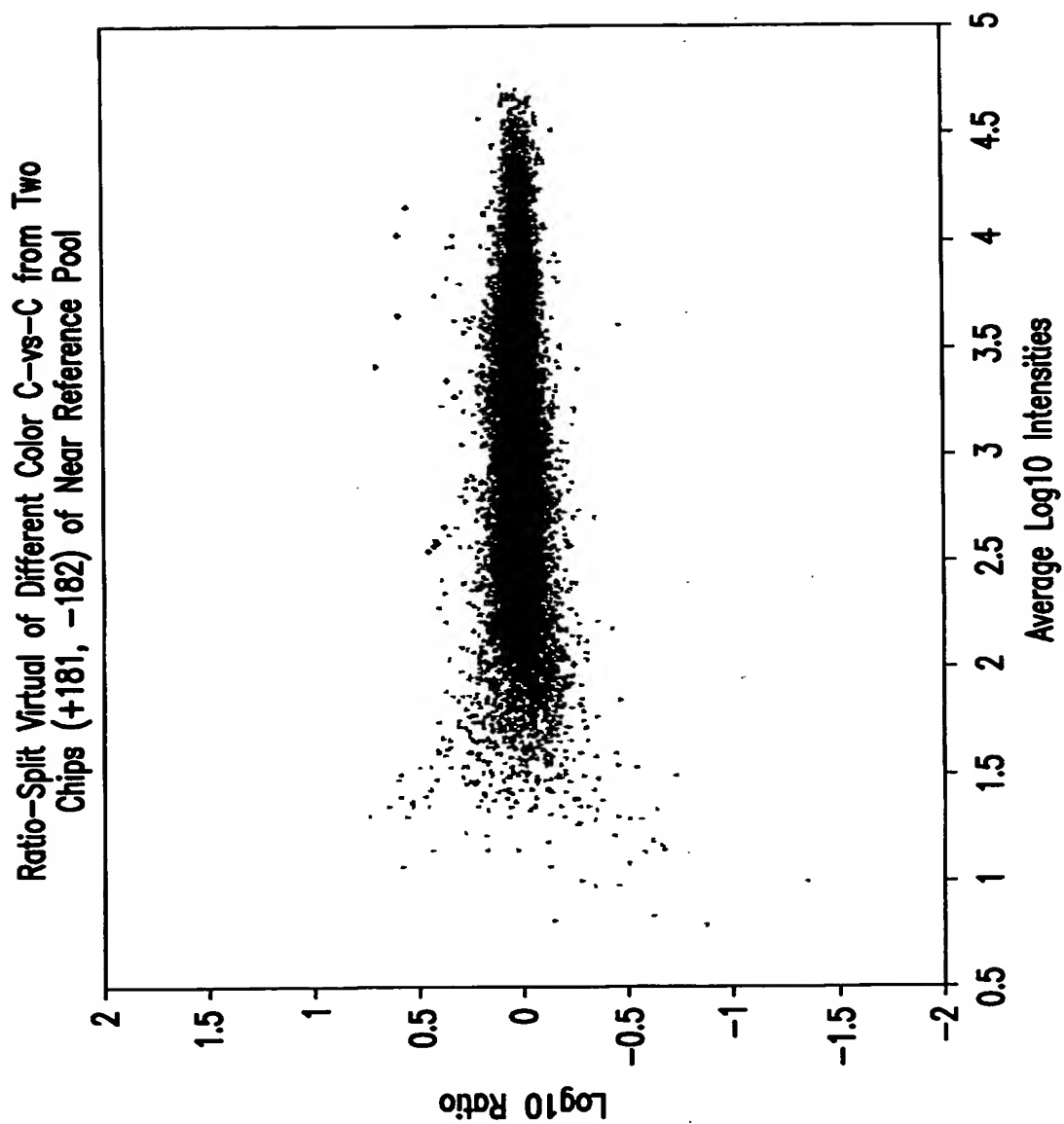


**FIG.31**

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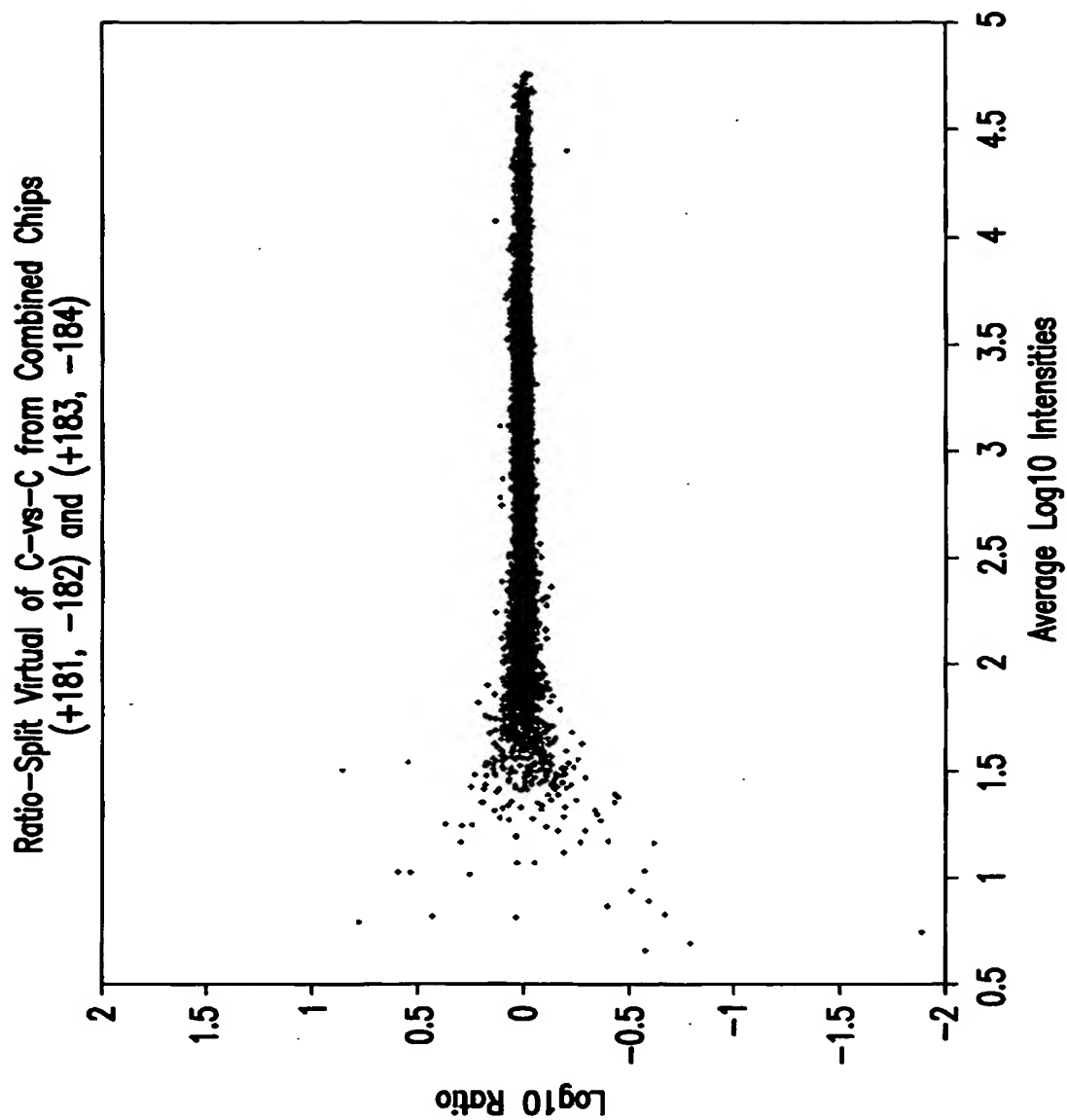
**Replacement Sheet**



**FIG.32**

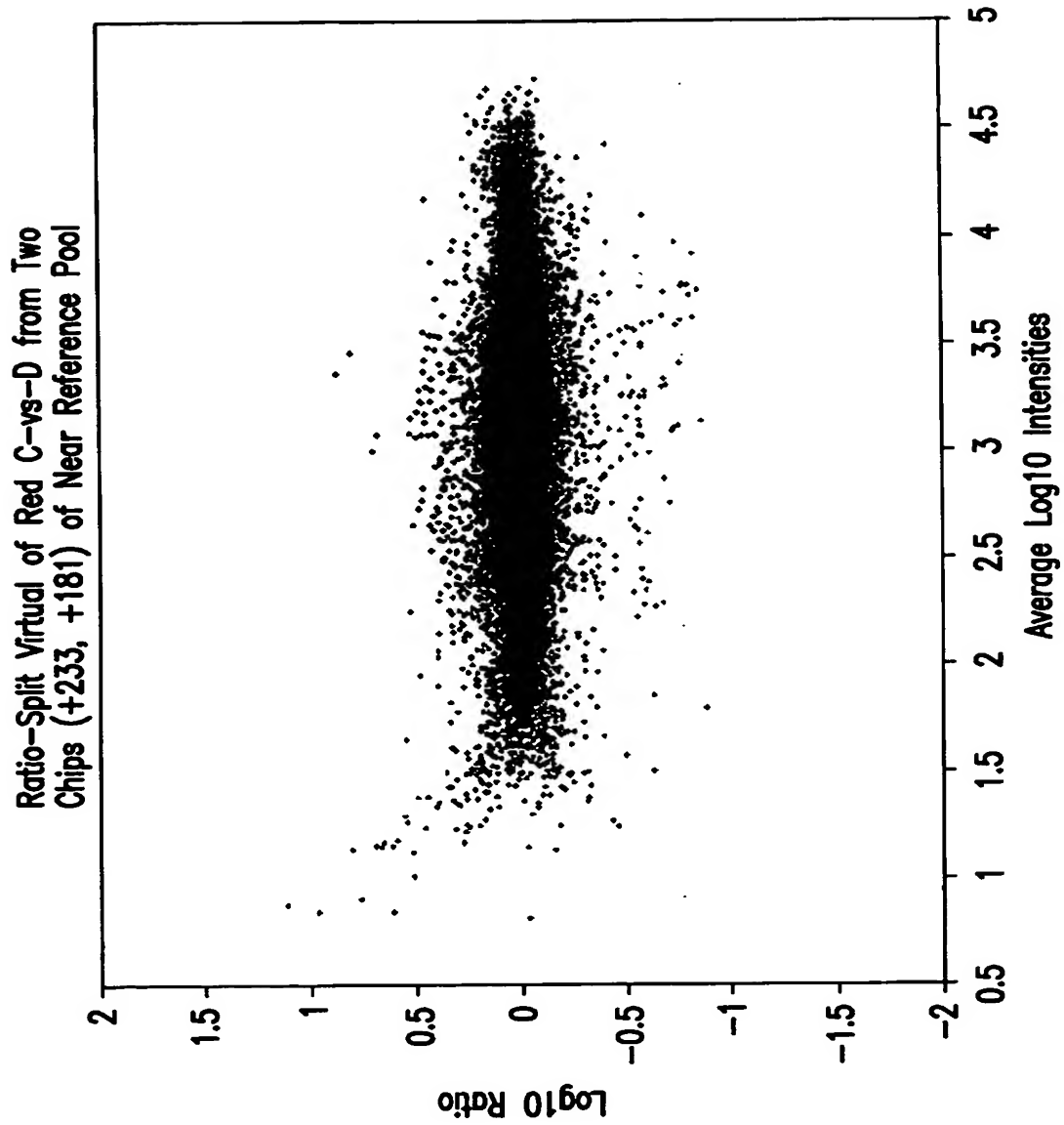


**Replacement Sheet**



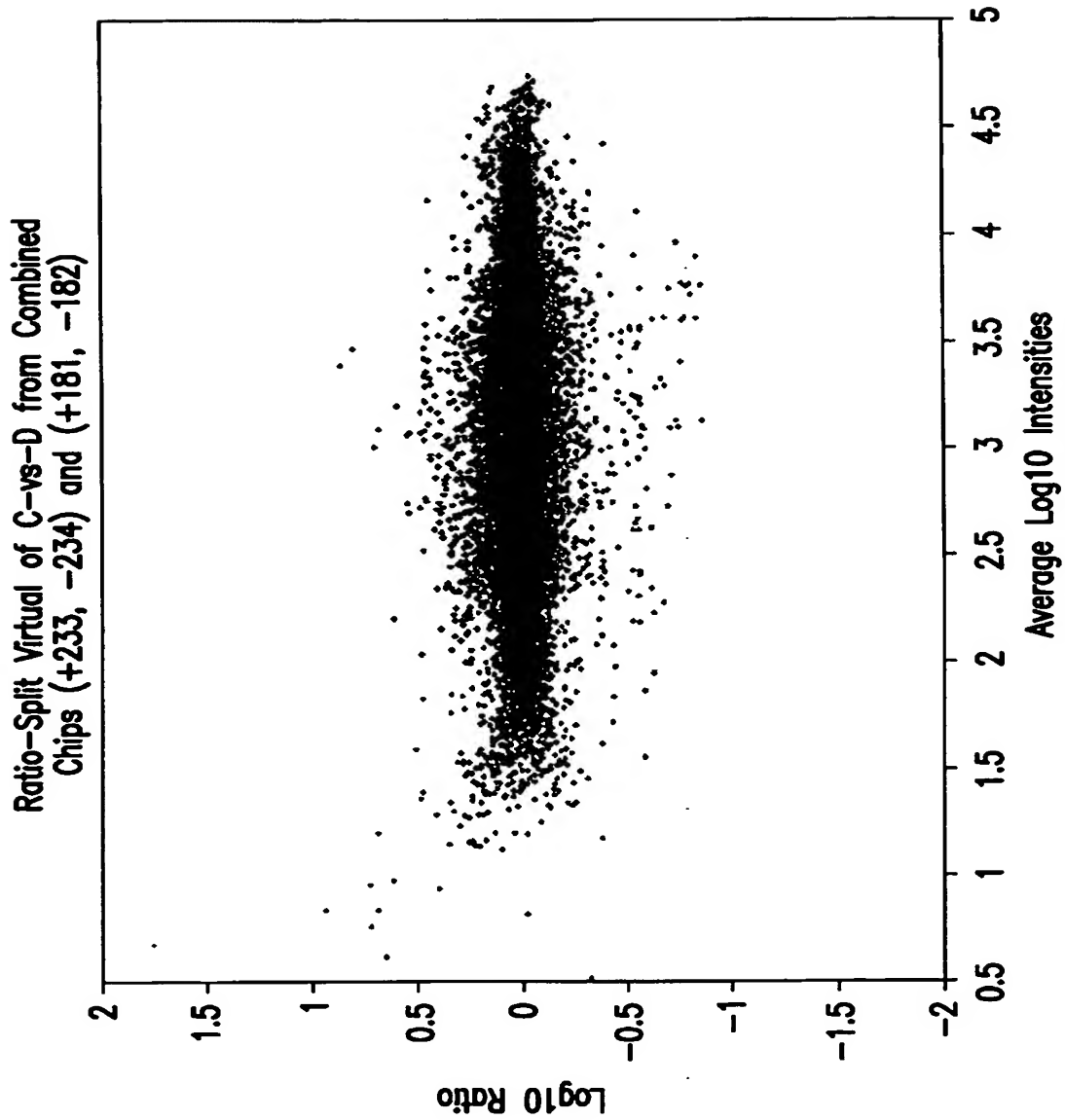
**FIG.33**

**Replacement Sheet**



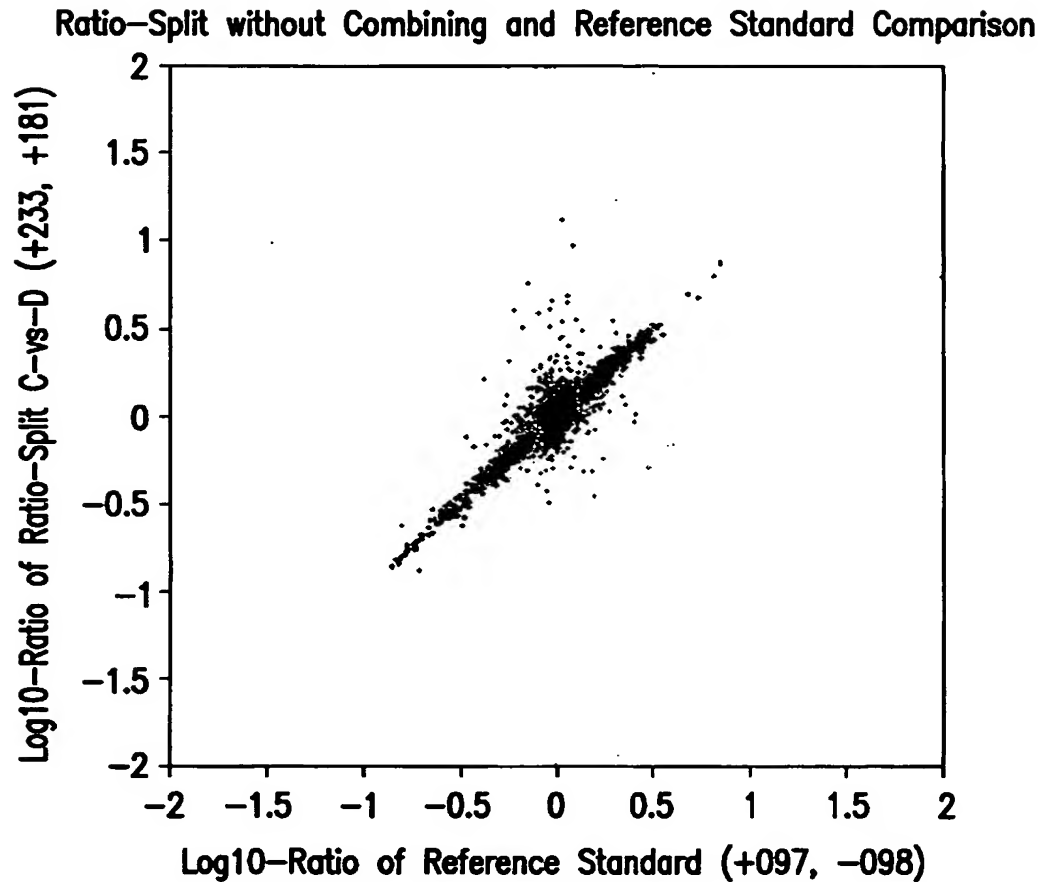
**FIG.34**

**Replacement Sheet**



**FIG.35**

**Replacement Sheet**



Y Signature = 0.916 percent

X Signature = 6.02 percent

Y Only = 0.0311 percent

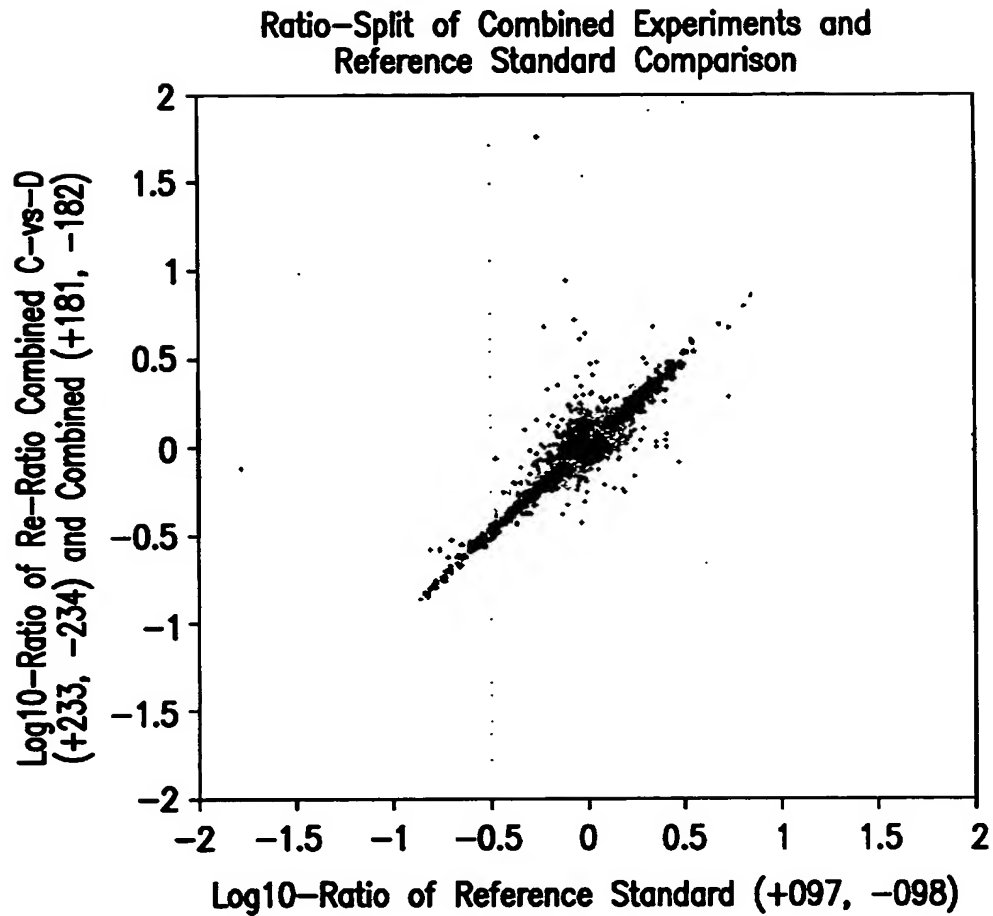
X Only = 5.14 percent

Signature in Both = 0.885 percent

Signature Union Correlation = 0.959

**FIG.36**

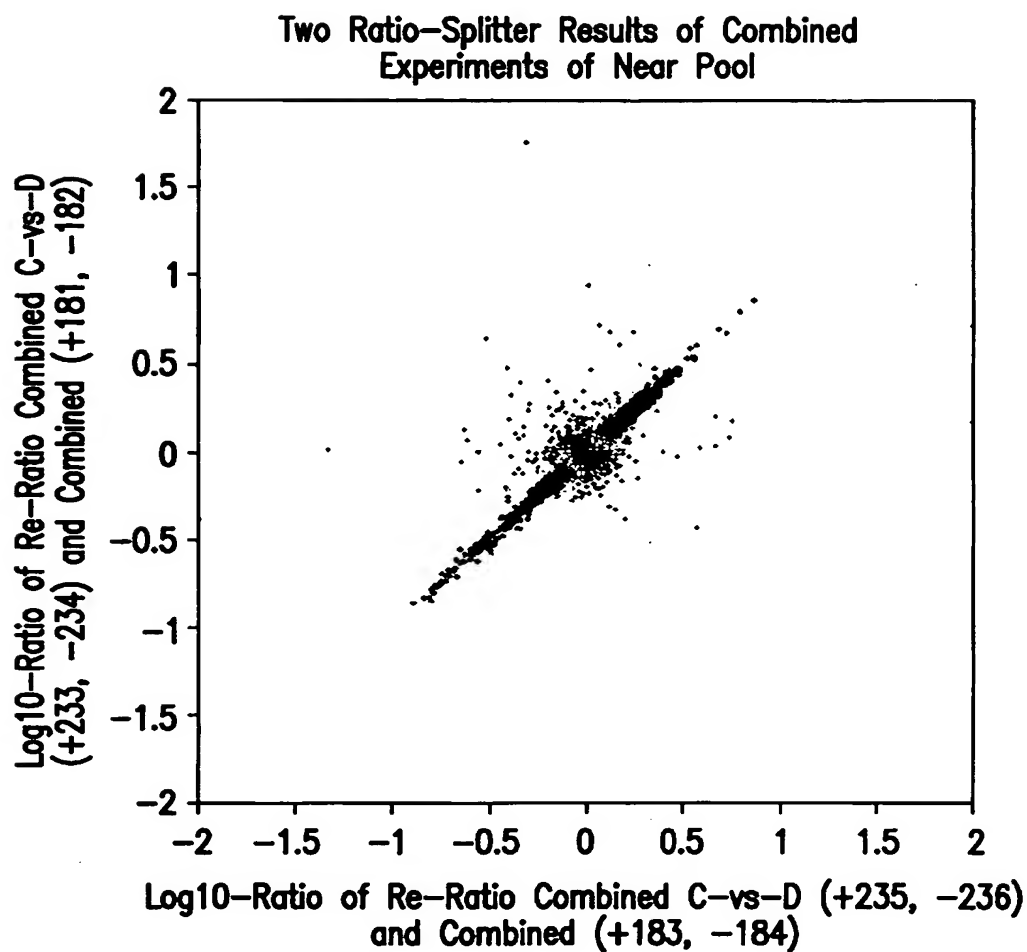
**Replacement Sheet**



Y Signature = 7.15 percent  
X Signature = 6.02 percent  
Y Only = 1.77 percent  
X Only = 0.641 percent  
Signature in Both = 5.38 percent  
Signature Union Correlation = 0.995

**FIG.37**

**Replacement Sheet**



Y Signature = 7.15 percent

X Signature = 7.27 percent

Y Only = 1.02 percent

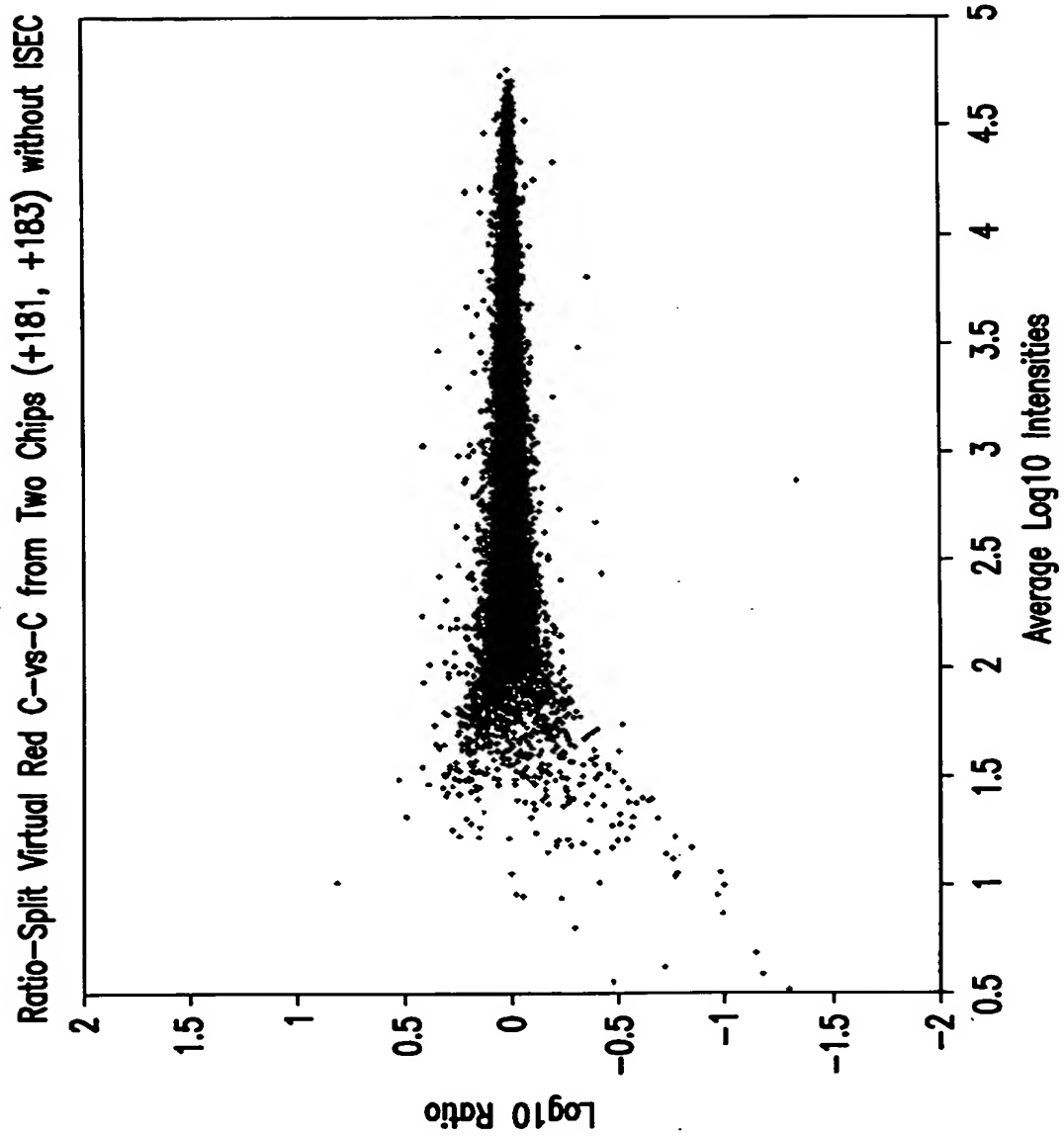
X Only = 1.15 percent

Signature in Both = 6.13 percent

Signature Union Correlation = 0.994

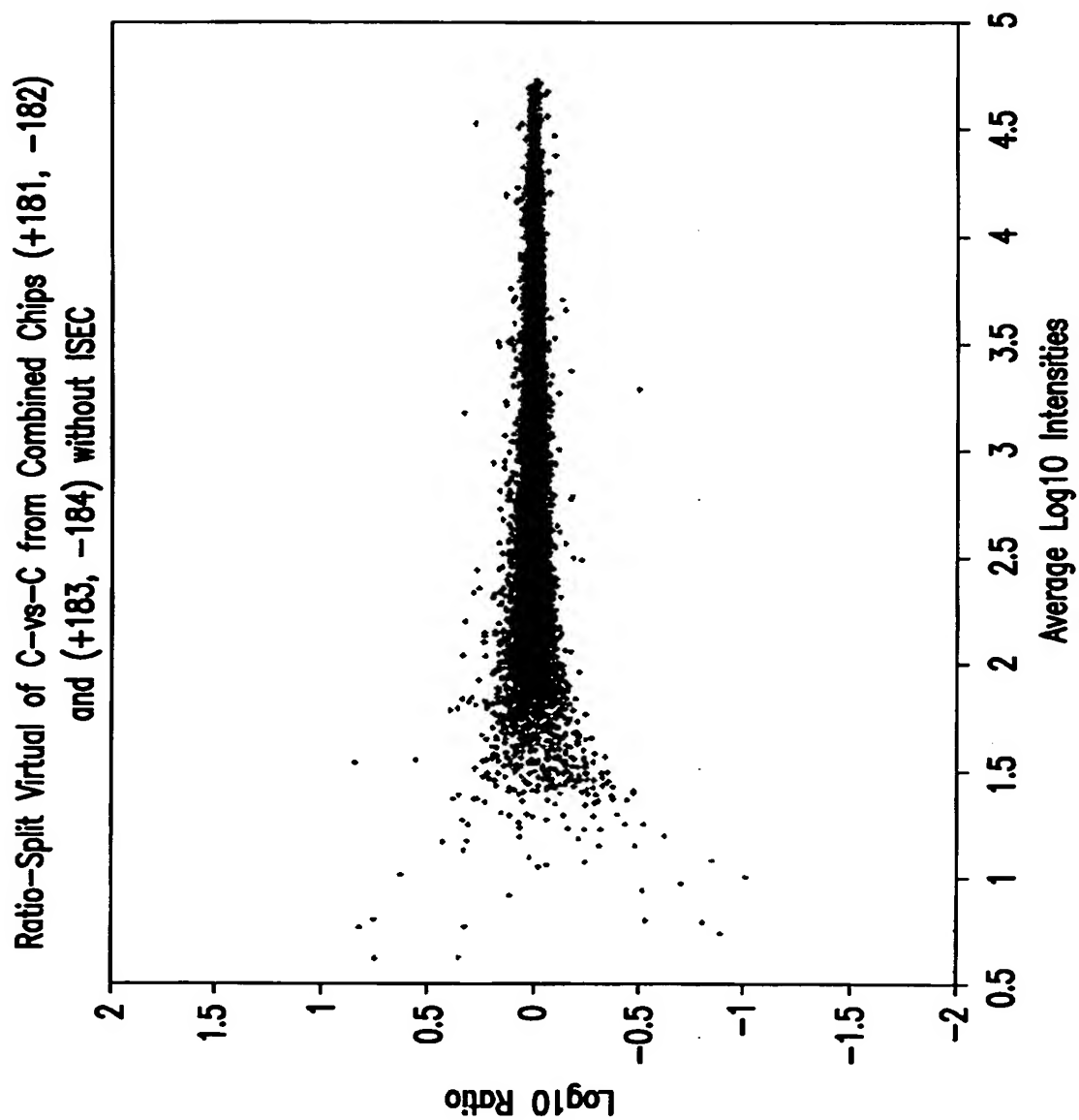
**FIG.38**

**Replacement Sheet**



**FIG.39**

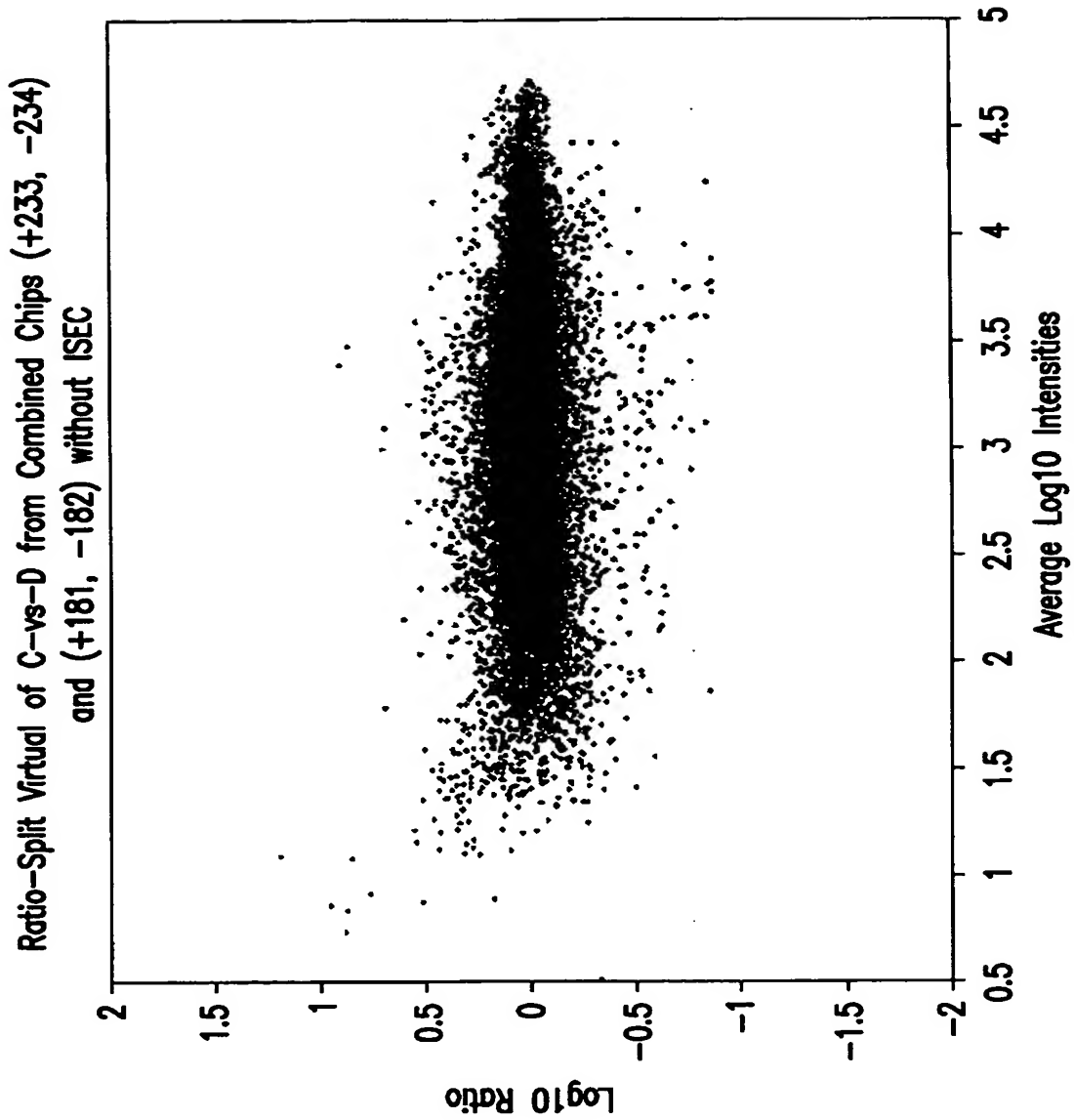
**Replacement Sheet**



**FIG.40**

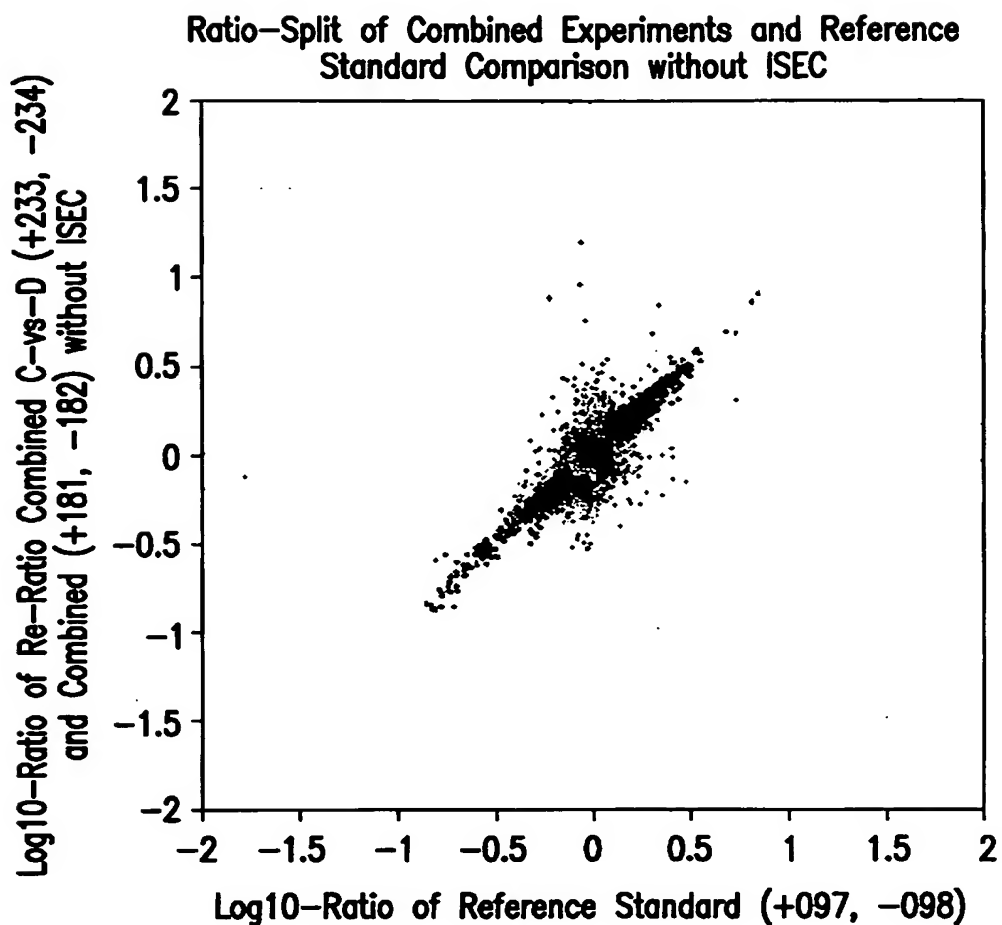


**Replacement Sheet**



**FIG.41**

**Replacement Sheet**



Y Signature = 6.49 percent

X Signature = 6.02 percent

Y Only = 1.97 percent

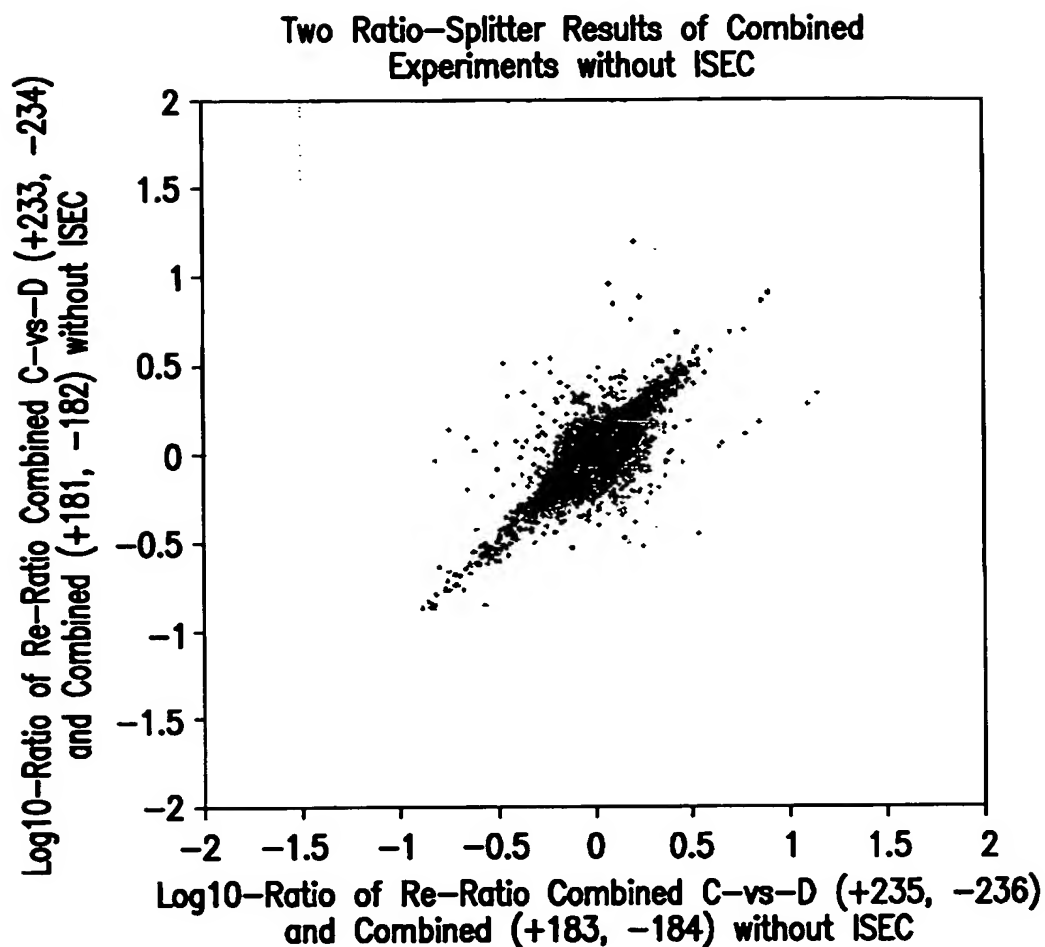
X Only = 1.5 percent

Signature in Both = 4.52 percent

Signature Union Correlation = 0.968

**FIG.42**

**Replacement Sheet**



**Y Signature = 6.49 percent**

**X Signature = 6.76 percent**

**Y Only = 1.9 percent**

**X Only = 2.17 percent**

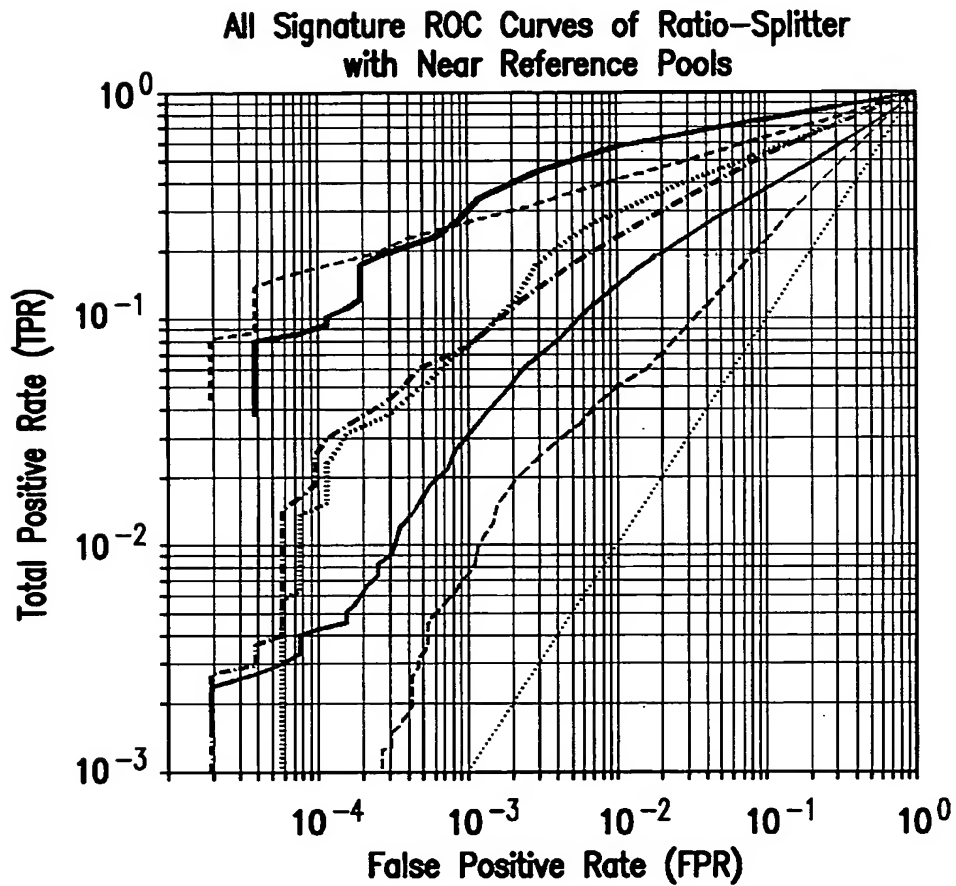
**Signature in Both = 4.6 percent**

**Signature Union Correlation = 0.955**

**FIG.43**

**Replacement Sheet**

- real combined
- - - virtual combined
- ..... virtual red-red
- . - virtual green-green
- - - virtual red-green
- real red-green

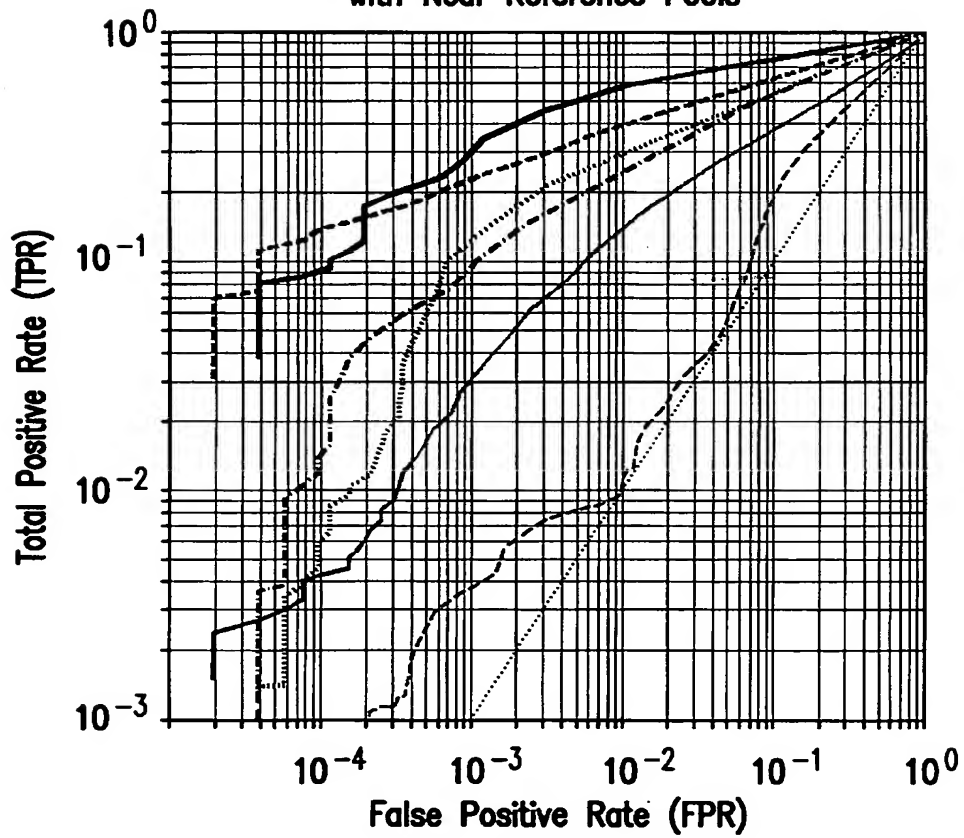


**FIG.44A**

**Replacement Sheet**

- real combined
- virtual combined
- ..... virtual red-red
- .- virtual green-green
- .- virtual red-green
- real red-green

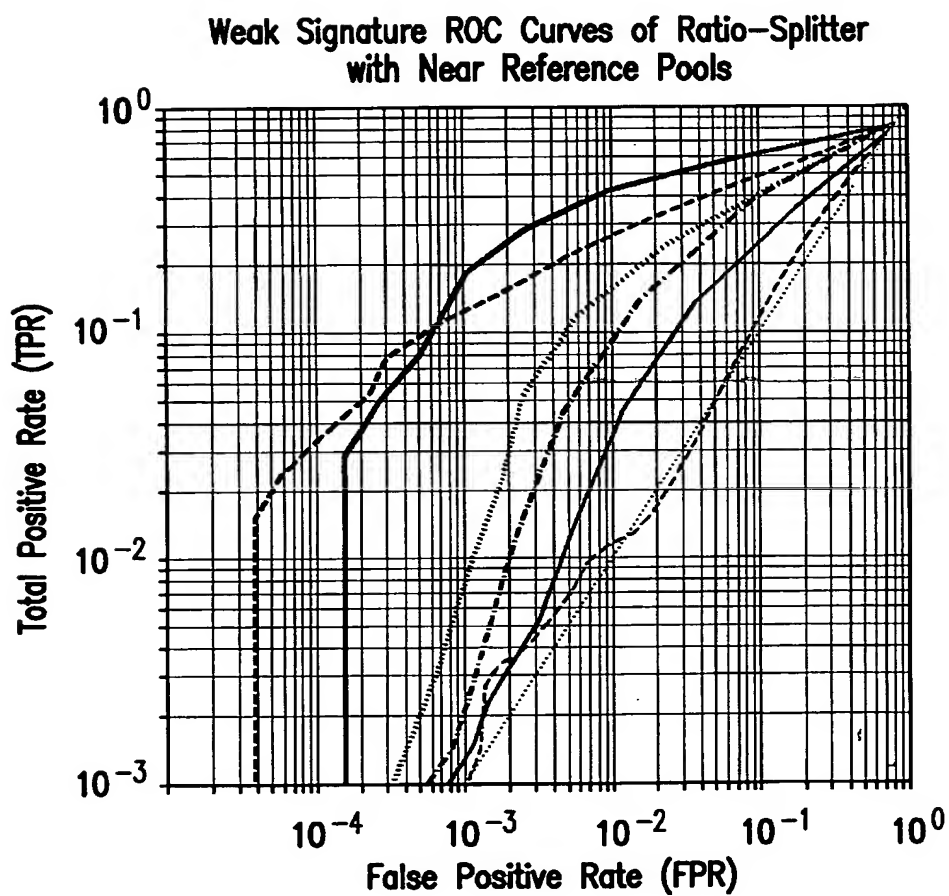
**All Signature ROC Curves of Re-Ratioer  
with Near Reference Pools**



**FIG.44B**

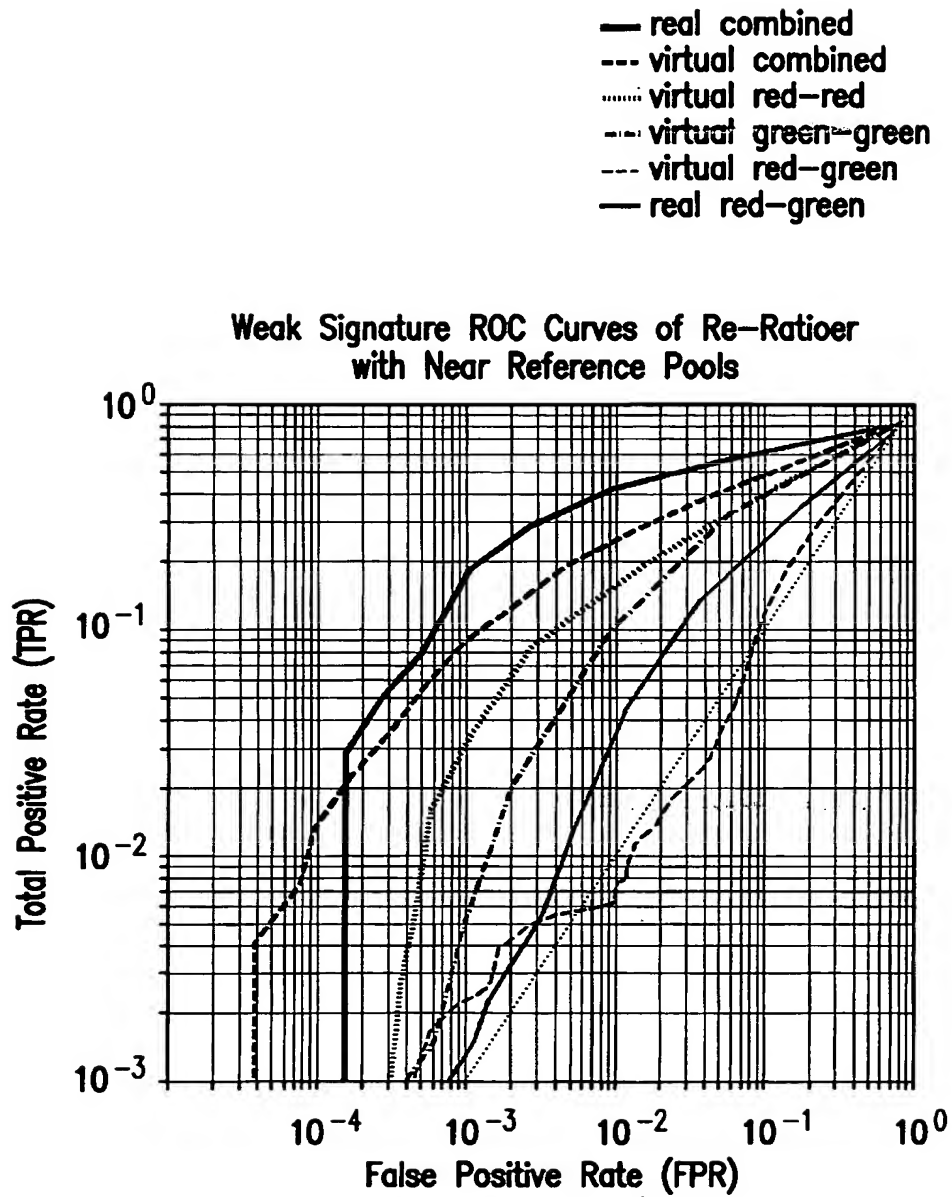
**Replacement Sheet**

— real combined  
--- virtual combined  
..... virtual red-red  
- - - virtual green-green  
- - - virtual red-green  
— real red-green



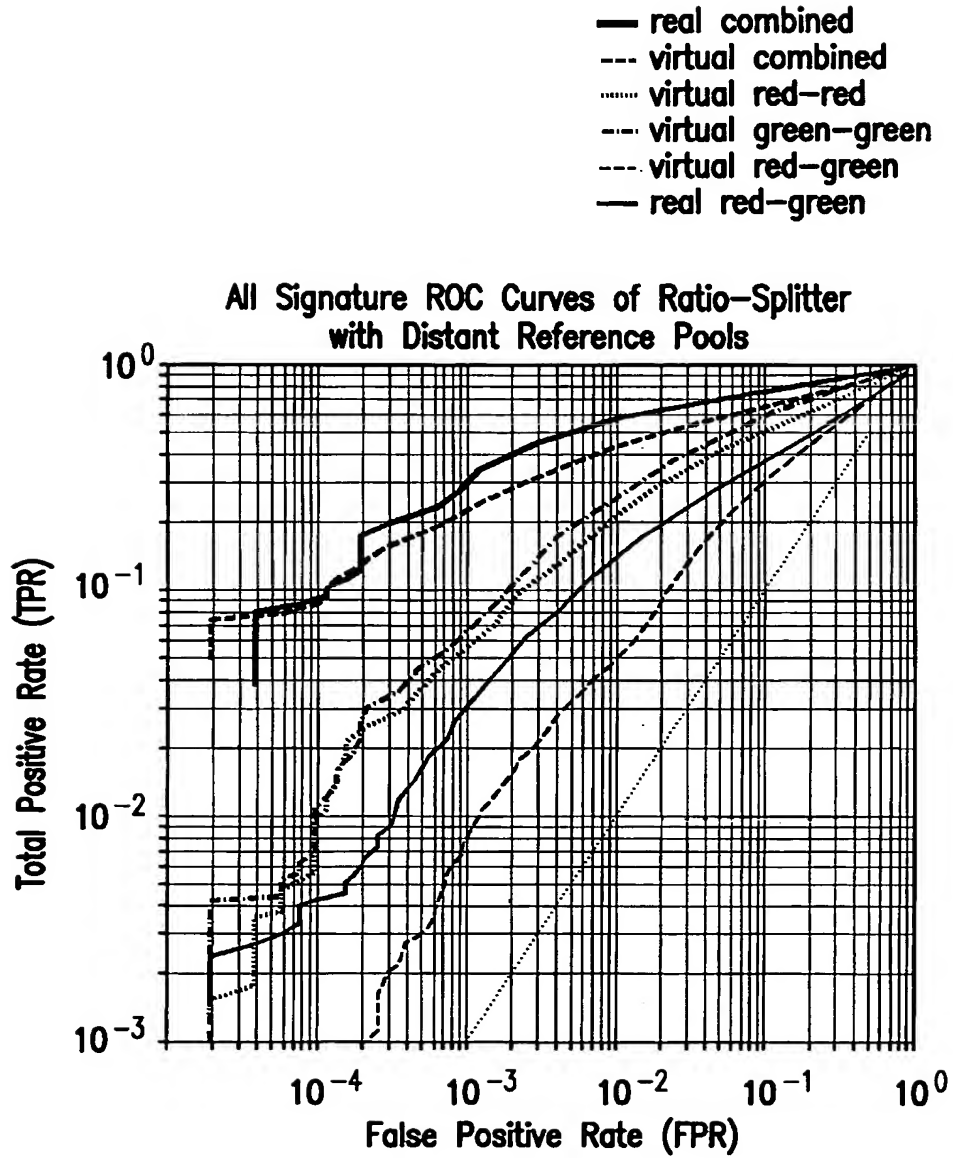
**FIG.45A**

**Replacement Sheet**



**FIG.45B**

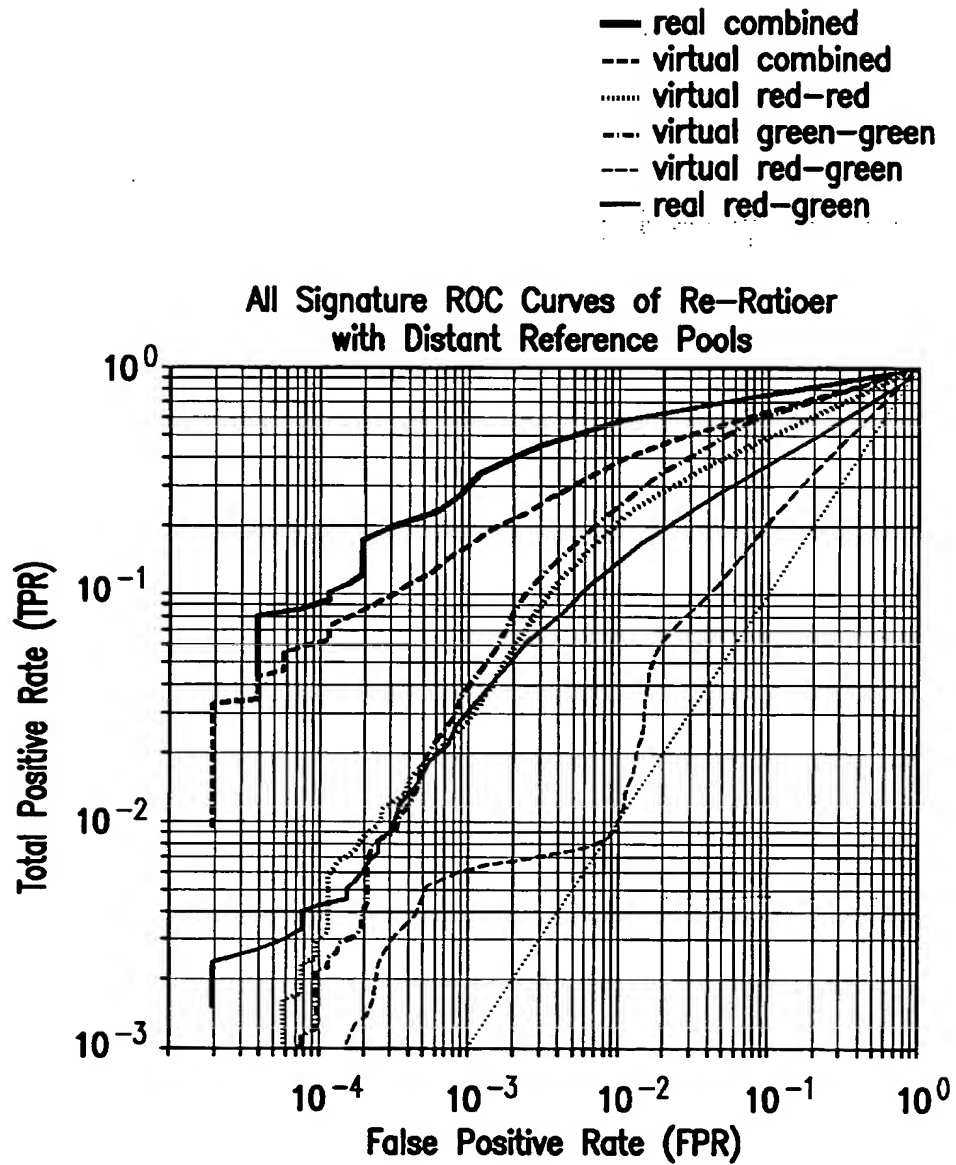
**Replacement Sheet**



**FIG.46A**



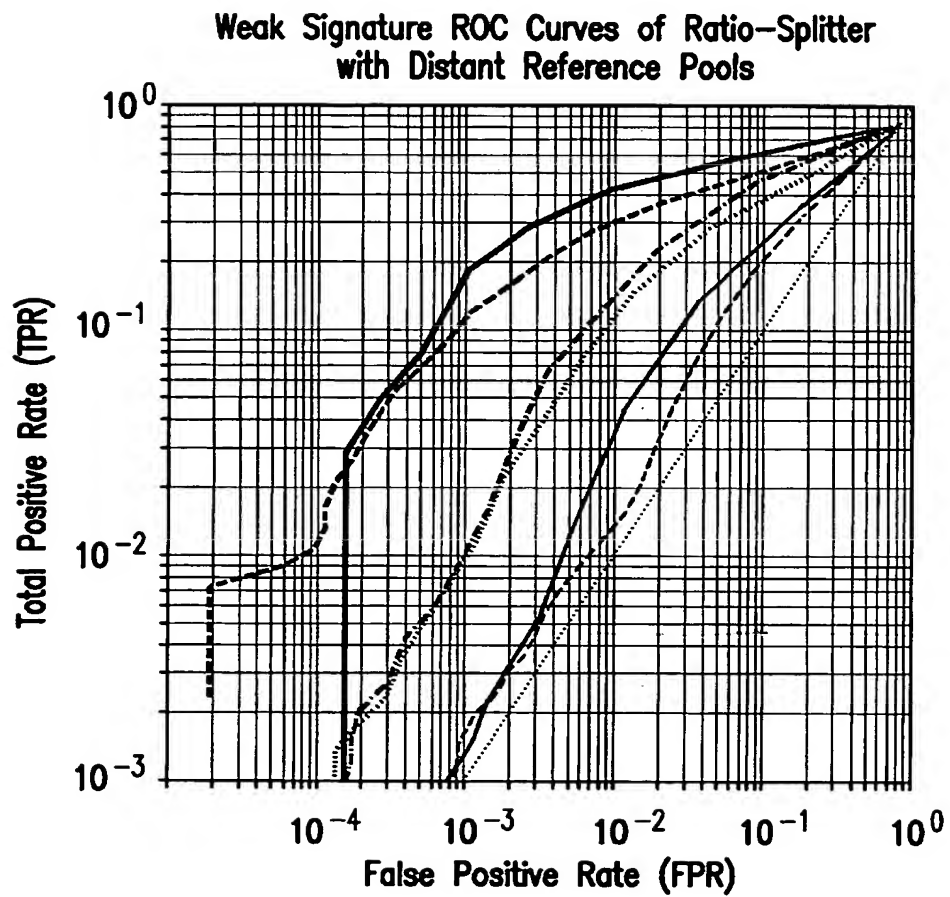
**Replacement Sheet**



**FIG.46B**

**Replacement Sheet**

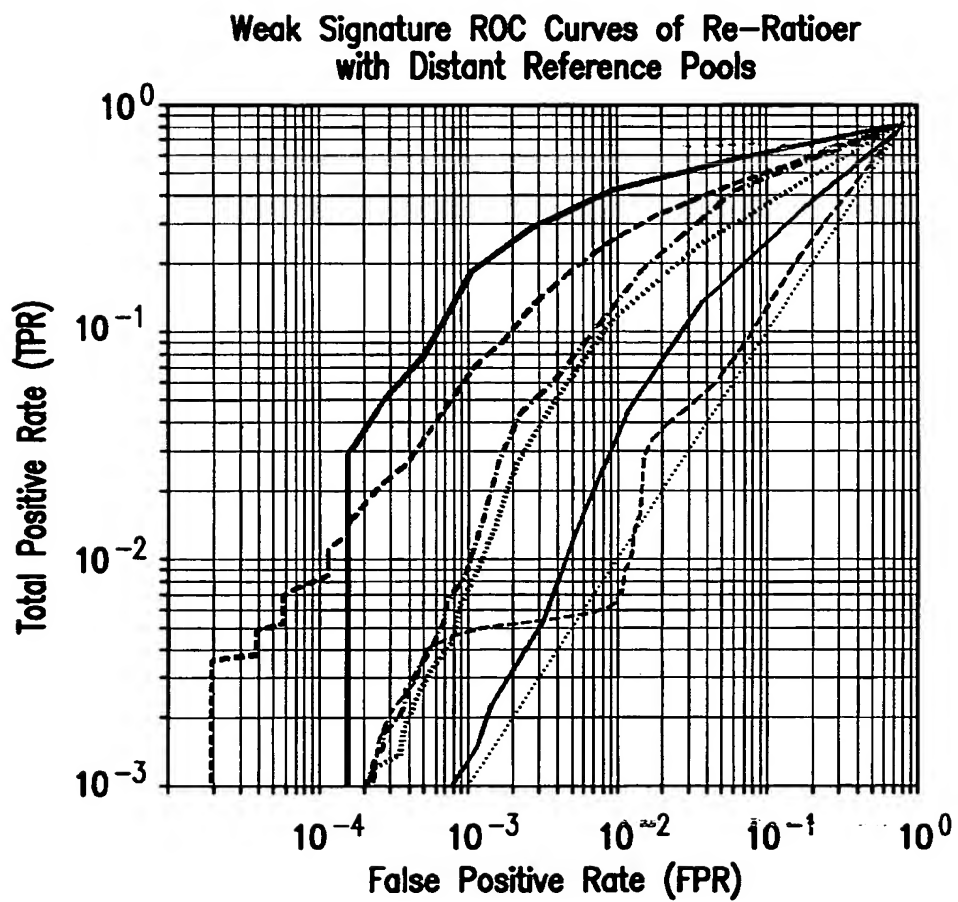
— real combined  
--- virtual combined  
..... virtual red-red  
-.- virtual green-green  
-.- virtual red-green  
— real red-green



**FIG.47A**

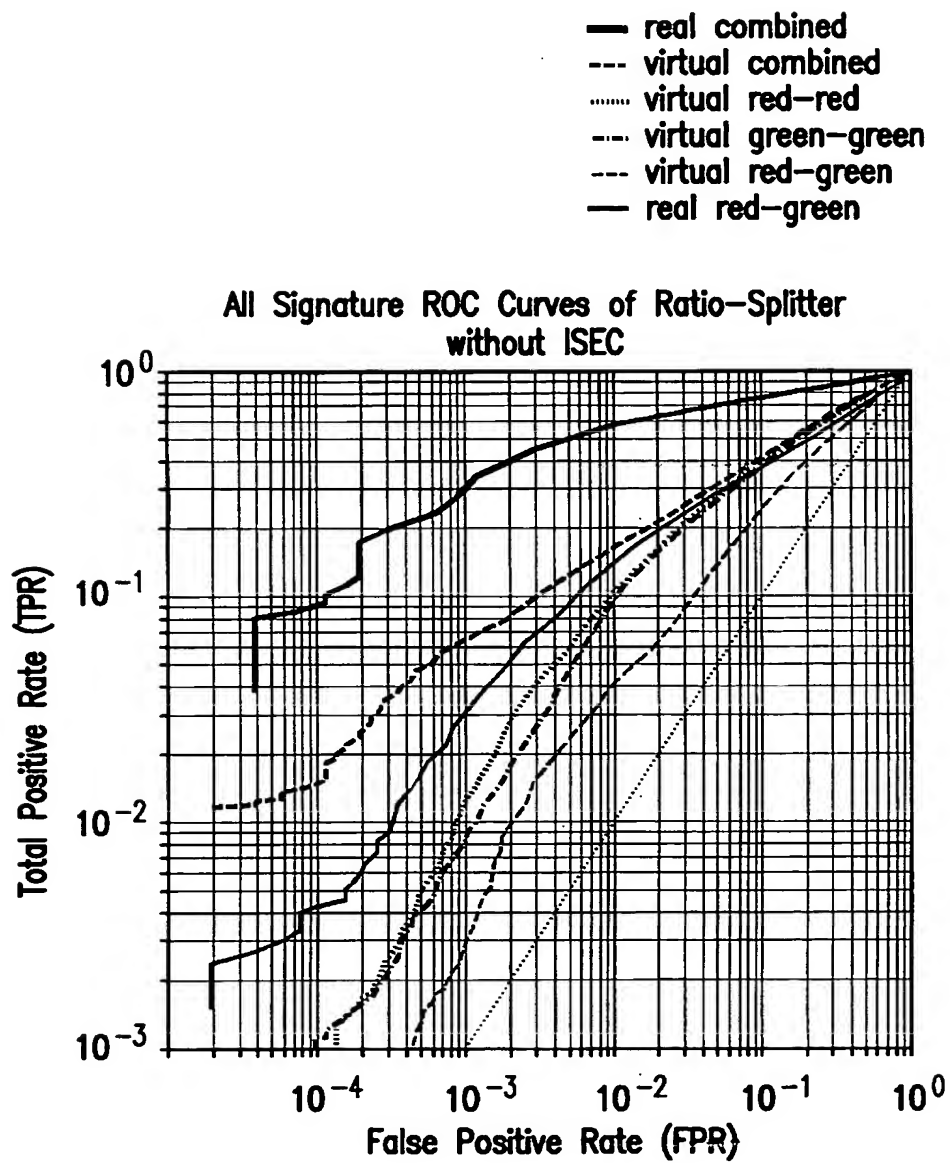
**Replacement Sheet**

— real combined  
--- virtual combined  
..... virtual red-red  
-.- virtual green-green  
-.- virtual red-green  
— real red-green



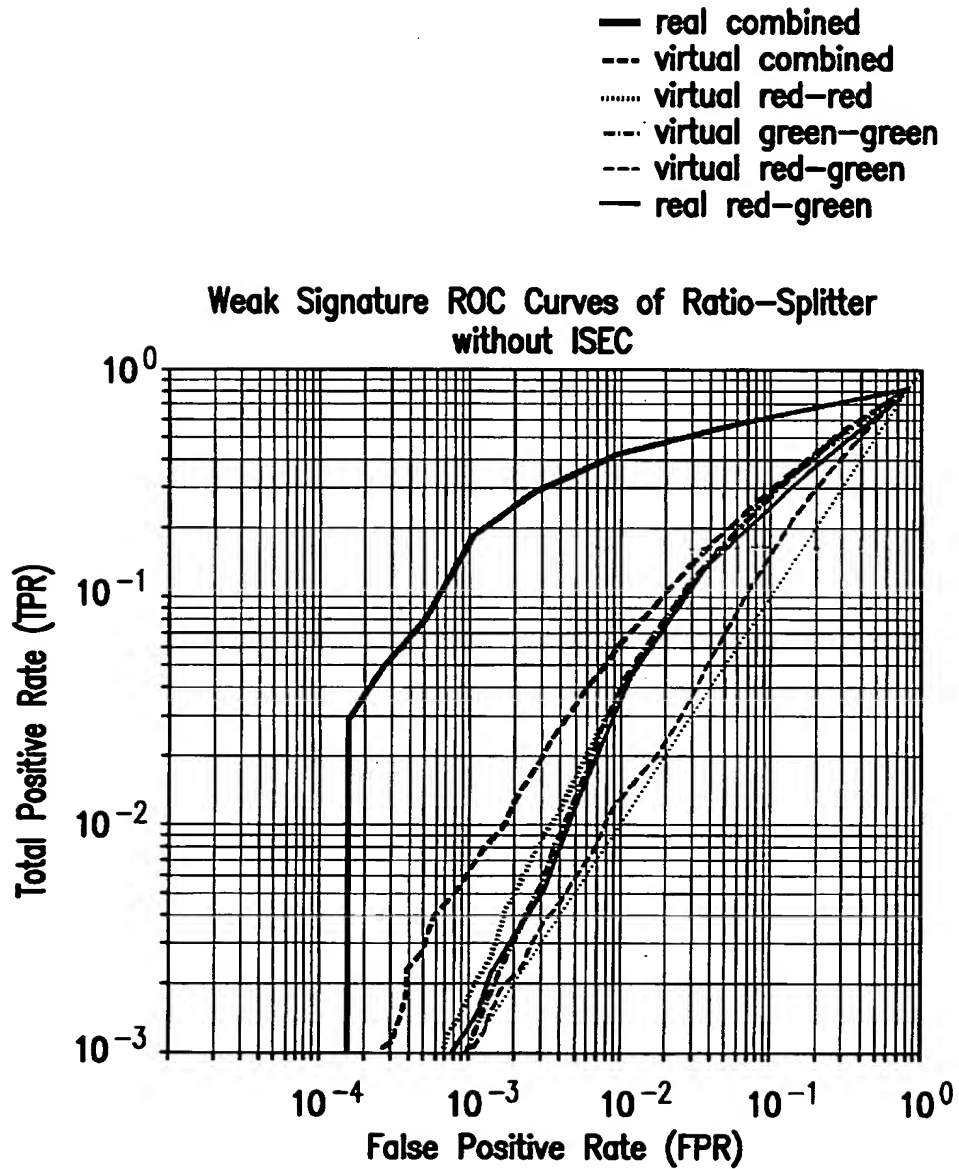
**FIG.47B**

**Replacement Sheet**

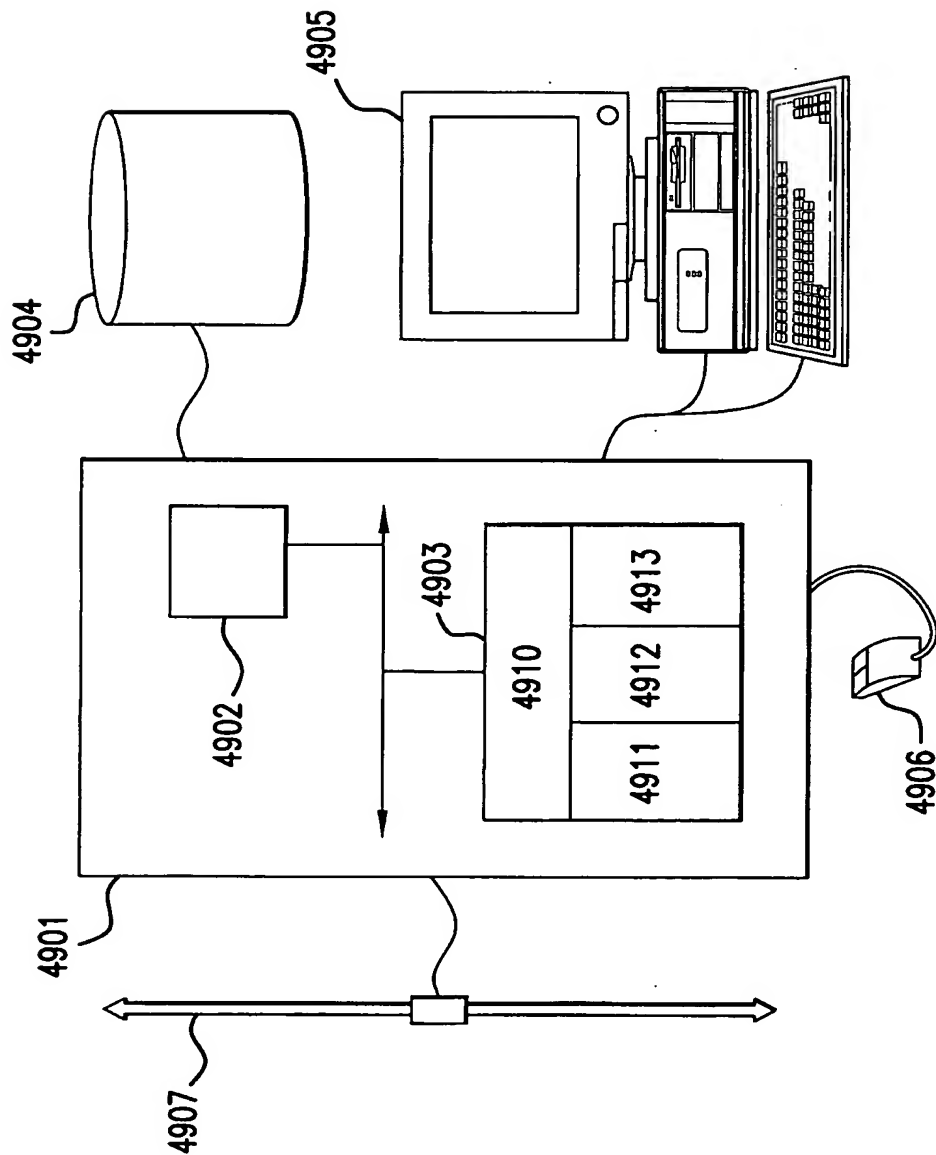


**FIG.48A**

**Replacement Sheet**



**FIG.48B**



**FIG. 49**